Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	68389	diabet$	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L2	33009	phenylalan$	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L3	5049	diabet$ and phenylalan$	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L4	1450	PPAR	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L5	445	(562/431).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L6	383	(562/445).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L7	0	("l2andl11").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L8	573	(514/538).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L9	0	("dibutylbenzene").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L10	0	"5059736".URPN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L11	5962	integrin$	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L12	5049	diabet$ and (diabet$ and phenylalan$)	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L13	2172	diabet$ and integrin$	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L14	1649	NIDDM	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01

L15	1059	(562/426).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L16	910	(514/563).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L17	58	(diabet$ and phenylalan$) and PPAR	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L18	27	diabet$ and (("562/445").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L19	3	"9935163".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L20	3	diabet$ and (("562/446").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L21	3	"9943642".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L22	5	"9906431".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L23	2	"9622966".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L24	3	"9515973".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L25	25	diabet$ and (("562/431").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L26	2	("5321181").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L27	2	("4849569").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L28	86	diabet$ and (("514/538").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L29	2	("5055627").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01

L30	2	("4950834").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L31	6	"748784".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L32	2	("5059736").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L33	2	di-n-butylbenzene	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L34	7	"9935163"	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L35	2	"5158959".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L36	12	PPAR and (diabet$ and integrin$)	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L37	17	NIDDM and integrin$	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L38	2	"11140079"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 06:01
L39	166	dibutylbenzene	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L40	204	(562/446).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L41	4	("5216167").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L42	5	"655562".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L43	2	"6555562".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L44	1	"4987132".PN.	USPAT; USOCR	OR	ON	2005/04/27 06:01

L45	1	"5164372".PN.	USPAT; USOCR	OR	ON	2005/04/27 06:01
L46	1	"5260277".PN.	USPAT; USOCR	OR	ON	2005/04/27 06:01
L47	1	"5296486".PN.	USPAT; USOCR	OR	ON	2005/04/27 06:01
L48	1	"5399585".PN.	USPAT; USOCR	OR	ON	2005/04/27 06:01
L49	1	"6093696".PN.	USPAT; USOCR	OR	ON	2005/04/27 06:01
L50	654	L5 or L6	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L51	26	L50 and L3	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/27 06:01
L52	11	"9736859"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 06:24
L53	10	"0710657"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 06:48
L54	169130	pharmaceutically adj acceptable	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 06:48
L55	197582	hexane	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 06:48
L56	627	l54 same l55	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 07:30
L57	0	("2005/0075377").URPN.	USPAT	OR	ON	2005/04/27 06:49
L58	0	"l6713514".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 07:30
L59	2	"6713514".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/27 07:30

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	68389	diabet$	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
2	BRS	L2	33009	phenylalan$	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
3	BRS	L3	5049	diabet$ and phenylalan$	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
4	BRS	L4	1450	PPAR	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
5	IS&R	L5	445	(562/431).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
6	IS&R	L6	383	(562/445).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01

	Comments	Error Definition	Errors
1			
2			
3			
4			
5			
6			

	Type	L #	Hits	Search Text	DBs	Time Stamp
7	IS&R	L7	0	("l2andl11").PN.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
8	IS&R	L8	573	(514/538).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
9	IS&R	L9	0	("dibutylbenzene").PN.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
10	BRS	L10	0	"5059736".URPN.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
11	BRS	L11	5962	integrin$	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
12	BRS	L12	5049	diabet$ and (diabet$ and phenylalan$)	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01

	Comments	Error Definition	Errors
7			
8			
9			
10			
11			
12			

	Type	L #	Hits	Search Text	DBs	Time Stamp
13	BRS	L13	2172	diabet$ and integrin$	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
14	BRS	L14	1649	NIDDM	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
15	IS&R	L15	1059	(562/426).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
16	IS&R	L16	910	(514/563).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
17	BRS	L50	654	L5 or L6	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
18	BRS	L44	1	"4987132".PN.	USPAT; USOCR	2005/04/27 06:01
19	BRS	L45	1	"5164372".PN.	USPAT; USOCR	2005/04/27 06:01
20	BRS	L46	1	"5260277".PN.	USPAT; USOCR	2005/04/27 06:01

	Comments	Error Definition	Errors
13			
14			
15			
16			
17			
18			
19			
20			

	Type	L #	Hits	Search Text	DBs	Time Stamp
21	BRS	L47	1	"5296486".PN.	USPAT; USOCR	2005/04/27 06:01
22	BRS	L48	1	"5399585".PN.	USPAT; USOCR	2005/04/27 06:01
23	BRS	L49	1	"6093696".PN.	USPAT; USOCR	2005/04/27 06:01
24	BRS	L17	58	(diabet$ and phenylalan$) and PPAR	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
25	BRS	L18	27	diabet$ and (("562/445").CCLS.)	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
26	BRS	L19	3	"9935163".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
27	BRS	L20	3	diabet$ and (("562/446").CCLS.)	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
28	BRS	L21	3	"9943642".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
29	BRS	L22	5	"9906431".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01

	Comments	Error Definition	Errors
21			
22			
23			
24			
25			
26			
27			
28			
29			

	Type	L #	Hits	Search Text	DBs	Time Stamp
30	BRS	L23	2	"9622966".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
31	BRS	L24	3	"9515973".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
32	BRS	L25	25	diabet$ and (("562/431").CCLS.)	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
33	IS&R	L26	2	("5321181").PN.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
34	IS&R	L27	2	("4849569").PN.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
35	BRS	L28	86	diabet$ and (("514/538").CCLS.)	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01

	Comments	Error Definition	Errors
30			
31			
32			
33			
34			
35			

	Type	L #	Hits	Search Text	DBs	Time Stamp
36	IS&R	L29	2	("5055627").PN.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
37	IS&R	L30	2	("4950834").PN.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
38	BRS	L31	6	"748784".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
39	IS&R	L32	2	("5059736").PN.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
40	BRS	L33	2	di-n-butylbenzene	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
41	BRS	L34	7	"9935163"	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01

	Comments	Error Definition	Errors
36			
37			
38			
39			
40			
41			

	Type	L #	Hits	Search Text	DBs	Time Stamp
42	BRS	L35	2	"5158959".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
43	BRS	L36	12	PPAR and (diabet$ and integrin$)	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
44	BRS	L37	17	NIDDM and integrin$	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
45	BRS	L38	2	"11140079"	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
46	IS&R	L41	4	("5216167").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
47	BRS	L42	5	"655562".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01

	Comments	Error Definition	Errors
42			
43			
44			
45			
46			
47			

	Type	L #	Hits	Search Text	DBs	Time Stamp
48	BRS	L43	2	"6555562".pn.	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
49	BRS	L51	26	L50 and L3	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
50	BRS	L39	166	dibutylbenzene	USPAT; EPO; JPO; DERWENT	2005/04/27 06:01
51	IS&R	L40	204	(562/446).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	2005/04/27 06:01
52	BRS	L52	11	"9736859"	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 06:24
53	BRS	L53	10	"0710657"	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 06:48

	Comments	Error Definition	Errors
48			
49			
50			
51			
52			
53			

	Type	L #	Hits	Search Text	DBs	Time Stamp
54	BRS	L54	169130	pharmaceutically adj acceptable	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 06:48
55	BRS	L55	197582	hexane	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 06:48
56	BRS	L57	0	("2005/0075377").URPN.	USPAT	2005/04/27 06:49
57	BRS	L56	627	l54 same l55	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 07:30
58	BRS	L58	0	"16713514".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 07:30
59	BRS	L59	2	"6713514".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	2005/04/27 07:30

	Comments	Error Definition	Errors
54			
55			
56			
57			
58			
59			

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	4	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	5	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	6	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	7	AUG 27	BIOCOMMERCE: Changes and enhancements to content coverage
NEWS	8	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS	9	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS	10	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	11	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS	12	SEP 27	STANDARDS will no longer be available on STN
NEWS	13	SEP 27	SWETSCAN will no longer be available on STN

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:21:13 ON 22 OCT 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:21:26 ON 22 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 OCT 2004 HIGHEST RN 766487-31-4
DICTIONARY FILE UPDATES: 20 OCT 2004 HIGHEST RN 766487-31-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.63

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:21:32 ON 22 OCT 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

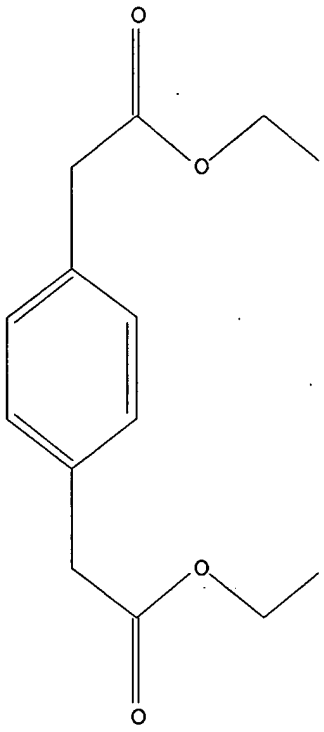
PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 06:24:21 ON 22 OCT 2004
FILE 'REGISTRY' ENTERED AT 06:24:21 ON 22 OCT 2004

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.63

=>
Uploading C:\Examination Auxillary files\10797458\10797458 stn search.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

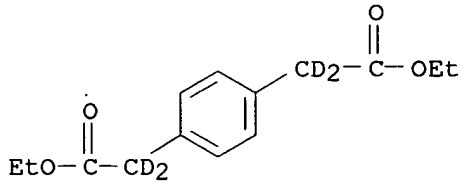
=> search l1 exact full
FULL SEARCH INITIATED 06:24:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 100 TO ITERATE

100.0% PROCESSED 100 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L2 4 SEA EXA FUL L1

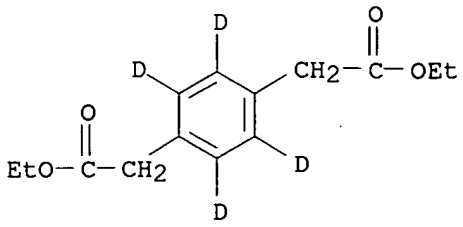
=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,4-Benzenedi(acetic-d2) acid, diethyl ester (9CI)
MF C14 H14 D4 O4



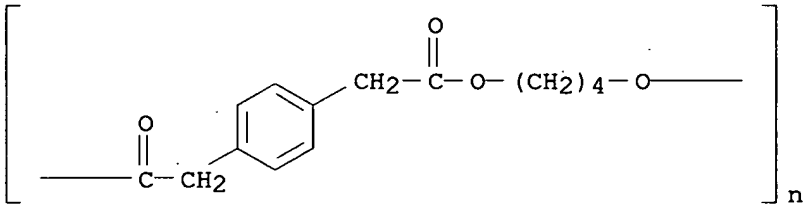
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L2 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,4-Benzene-2,3,5,6-d4-diacetic acid, diethyl ester (9CI)
MF C14 H14 D4 O4

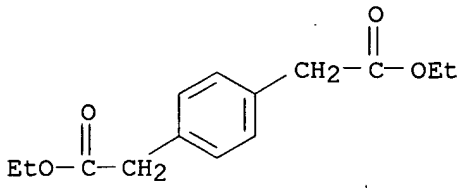


L2 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly[oxy-1,4-butanediyloxy(1-oxo-1,2-ethanediyl)-1,4-phenylene(2-oxo-1,2-ethanediyl)] (9CI)
MF (C14 H16 O4)n
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK



L2 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,4-Benzenediacetic acid, diethyl ester (9CI)
MF C14 H18 O4
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file capls
'CAPLS' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

```
=> file caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        53.09      53.30

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FILE COVERS 1907 - 22 Oct 2004  VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004  (20041020/ED)

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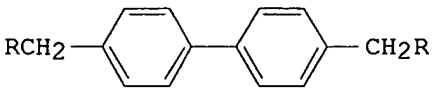
  substance identification.


=> l2
L3          21 L2

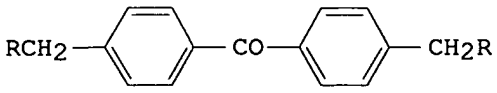
=> l2/prep
            21 L2
       3212539 PREP/RL
L4          11 L2/PREP
                 (L2 (L) PREP/RL)

=> d l4 5-11 ti fbib abs

L4   ANSWER 5 OF 11  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Palladium complex-catalyzed carboalkoxylation of bis(chloromethyl)arenes
AN   1988:454438  CAPLUS
DN   109:54438
TI   Palladium complex-catalyzed carboalkoxylation of bis(chloromethyl)arenes
AU   Kobayashi, Toshiaki; Abe, Fujio; Tanaka, Masato
CS   Natl. Chem. Lab. Ind., Yatabe, 305, Japan
SO   Journal of Molecular Catalysis (1988), 45(1), 91-109
     CODEN: JMCADS; ISSN: 0304-5102
DT   Journal
LA   English
OS   CASREACT 109:54438
GI
```



I



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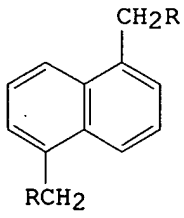
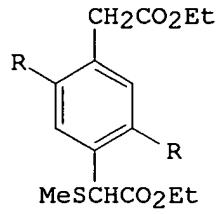


III

AB Carboalkoxylation of 4-ClCH2C6H4CH2Cl with ROH (R = Me, Et, Me2CH, Me3C, Ph) and CO in the presence of PdCl2(PPh3)2 and N,N-dicyclohexylmethylamine gave diesters 4-RO2CCH2C6H4CH2CO2R as the major products. A similar reaction of 8 other bis(chloromethyl)arenes, e.g. I, II, and III (R = Cl), with MeOH and CO gave the corresponding diesters I, II, and III (R = CO2Me). Reaction parameters, such as auxiliary base, palladium complex catalyst, and solvent, were found to significantly affect the selectivity for diester formation.

L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Syntheses of arenediacetic esters and acetonyl-substituted arylacetic esters by means of Friedel-Crafts reaction with α-acyl-α-chlorosulfides
AN 1986:590606 CAPLUS
DN 105:190606
TI Syntheses of arenediacetic esters and acetonyl-substituted arylacetic esters by means of Friedel-Crafts reaction with α-acyl-α-chlorosulfides
AU Ishibashi, Hiroyuki; Ikeda, Masazumi; Choi, Hong Dae; Nakagawa, Hiroko; Ueda, Yuko; Tamura, Yasumitsu
CS Kyoto Pharm. Univ., Kyoto, 607, Japan
SO Chemical & Pharmaceutical Bulletin (1985), 33(12), 5310-15
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
OS CASREACT 105:190606
GI



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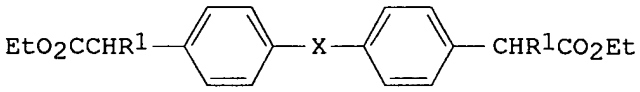
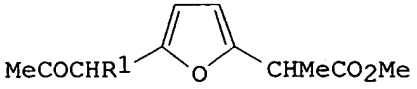


III



V

AB Friedel-Crafts reaction of 2,5-R2C6H3CO2Et (R = H, Me) with α-chloro-α-(methylthio)acetate (I) in the presence of SnCl4 gave the α-methylthio-1,4-benzenediacetates II. The reactions of biphenyl, Ph2CH2, and Ph2O with excess I gave III (R1 = MeS, X = bond, CH2, O, resp.). Desulfurization of II (R = H, Me) and these III gave 2,5-R2C6H2(CH2CO2Et)2-1,4 and III (R1 = H). Me 4-(2-oxopropyl)phenylacetate was prepared by reaction of Me phenylacetate with α-chloro-α-(methylthio)acetone (IV) followed by desulfurization of the resulting product. Me 2-(2-furyl)propionate treated with IV in the presence of ZnCl2 gave furan V (R1 = MeS), desulfurization of which gave V (R1 = H).

L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of deuterium labeled styrenes and divinylbenzenes
AN 1986:515433 CAPLUS
DN 105:115433
TI Preparation of deuterium labeled styrenes and divinylbenzenes
AU Werstiuk, Nick Henry; Timmins, George
CS Dep. Chem., McMaster Univ., Hamilton, ON, L8S 4M1, Can.
SO Canadian Journal of Chemistry (1986), 64(6), 1072-6
CODEN: CJCHAG; ISSN: 0008-4042
DT Journal
LA English
OS CASREACT 105:115433
AB Specifically deuterated styrenes (1-d, 2,2'-d2, and ring-labeled), perdeuterostyrene [19361-62-7], and specifically deuterated divinylbenzenes (1,1'-d2, 2,2,2',2'-d4, and ring-labeled) were prepared by transforming suitably labeled phenylacetic (hydride or deuteride reduction and dehydration by solid KOH) and phenylenediacetic acids (esterification, hydride or deuteride reduction, and dehydration by solid KOH), resp.

L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Double homologation of terephthalaldehyde by Wittig and Horner-Wittig reactions: synthesis of 1,4-benzenediacetaldehyde
AN 1986:497101 CAPLUS
DN 105:97101
TI Double homologation of terephthalaldehyde by Wittig and Horner-Wittig reactions: synthesis of 1,4-benzenediacetaldehyde
AU Campa, Carme; Sanchez-Ferrando, Francisco; Tristan-Polo, Manuel
CS Fac. Cienc., Univ. Auton. Barcelona, Barcelona, Spain
SO Nouveau Journal de Chimie (1985), 9(7), 493-8
CODEN: NJCHD4; ISSN: 0398-9836
DT Journal
LA English
OS CASREACT 105:97101
AB The Wittig reaction of 1,4-C6H4(CHO)2 with equimolar Ph3P:CHOMe (I) orPh2P(O)CH2OMe (II) gave 4-OHCC6H4CH:CHOMe (III), whereas with excess I or II 1,4-C6H4(CH:CHOMe)2 was obtained. Hydrolysis of III gave 4-OCHC6H4CH2CHO. Similarly PhCHO and I gave PhCH:CHOMe, which was hydrolyzed to PhCH2CHO. 1,4-C6H4(CH2CHO)2 was also obtained in 50% yield by reduction of 1,4-C6H4(CH2CO2Et)2 by Dibal.

L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Arylacetates
AN 1983:106993 CAPLUS
DN 98:106993
TI Arylacetates
PA Denki Kagaku Kogyo K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57183740	A2	19821112	JP 1982-68850	19820426
	JP 59021852	B4	19840522		
				JP 1982-68850	19820426

AB RCHR1CO2R2 [I, R = (un)substituted aryl, R1 = H, alkyl, R2 = alkyl] were prepared by alkoxycarbonylation of RCHR1R3 (R3 = halo). Thus, stirring PhCH2Cl with MeOH and Na2CO3 in the presence of Co(CO)4- at CO 5 kg/cm2 and 55° for 4 h gave 91% I (R = Ph, R1 = H, R2 = Me).

L4 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Ammonolysis of phenylenediacetic acid esters
AN 1973:83990 CAPLUS
DN 78:83990
TI Ammonolysis of phenylenediacetic acid esters
AU Ioffe, A. E.; Khcheyan, Kh. E.
CS Nauchno-Issled. Inst. Sint. Spirtov. Org. Prod., Moscow, USSR
SO Neftekhimiya (1972), 12(6), 883-93
CODEN: NEFTAH; ISSN: 0028-2421
DT Journal
LA Russian
AB Esterification of m- and p-(HO2CCH2)2C6H4 by excess ROH (R = C1-C10 n-alkyl) in the presence of H2SO4 yielded the corresponding (RO2CCH2)2C6H4 (I) in 89.1-99.0% yield. Ammonolysis of I using 26% aqueous NH3 at 0-5° yielded m- and p-(H2NCOCH2)2C6H4 and m- and p-(NH4+-O2CCH2)2C6H4; the amide-ammonium salt ratio decreased with increasing length of R and temperature at 0-30°.

L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of esters of phenylenediacetic acids based on diethylbenzene
AN 1972:153294 CAPLUS
DN 76:153294
TI Synthesis of esters of phenylenediacetic acids based on diethylbenzene
AU Khcheyan, Kh. E.; Ioffe, A. E.; Kostyuk, A. G.
CS USSR
SO Khimicheskaya Promyshlennost (Moscow, Russian Federation) (1972), 48(2), 98-100
CODEN: KPRMAW; ISSN: 0023-110X
DT Journal
LA Russian
GI For diagram(s), see printed CA Issue.
AB Ten title esters (I, R = n-C1-5 alkyl), having low viscosities and high b.ps., were prepared from the corresponding C6H4Et2 by liquid phase oxidation to C6H4(COMe)2 with atmospheric O, Willgerodt or Willgerodt-Kindler reaction, and esterification with an alc. The esters were soluble in CHCl3, CCl4, and alcs., but insol. in water.

=> d l4 1-4 ti fbib abs

L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Binding of Tetramethylammonium to Polyether Side-Chained Aromatic Hosts. Evaluation of the Binding Contribution from Ether Oxygen Donors
AN 2003:738628 CAPLUS
DN 139:364597
TI Binding of Tetramethylammonium to Polyether Side-Chained Aromatic Hosts. Evaluation of the Binding Contribution from Ether Oxygen Donors
AU Bartoli, Sandra; De Nicola, Gina; Roelens, Stefano
CS CNR, Istituto di Chimica dei Composti Organometallici, Dipartimento di Chimica Organica, Universita di Firenze, Sesto Fiorentino, I-50019, Italy
SO Journal of Organic Chemistry (2003), 68(21), 8149-8156
CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society
DT Journal
LA English
OS CASREACT 139:364597
AB A set of macrocyclic and open-chain aromatic ligands endowed with polyether side chains was prepared to assess the contribution of ether O donors to the binding of tetramethylammonium (TMA), a cation believed incapable of interacting with O donors. The open-chain hosts consisted of an aromatic binding site and side chains possessing a variable number of ether O donors; the macrocyclic ligands were based on the structure of a previously studied host, the dimeric cyclophane 1,4-xylylene-1,4-phenylene diacetate (DXPDA), implemented with polyether-type side chains in the backbone. Association to tetramethylammonium picrate (TMAP) was measured in CDCl3 at T = 296 K by 1H NMR titrns. The main contribution to the binding of TMA comes from the cation-π interaction established with the aromatic binding sites, but they unequivocally show that polyether chains participate with cooperative contributions, although of markedly smaller entity. Water is also bound, but the two guests interact with aromatic rings and O donors in an essentially noncompetitive way. An improved procedure for the preparation of cyclophanic tetraester derivs. was developed that conveniently recycles the oligomeric ester byproducts formed in the 1-pot cyclization reaction. An alternative entry to benzylic diketones also was provided that makes use of a low-order cyanocuprate reagent to prepare in fair yields a class of compds. otherwise uneasily accessible.
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Enzymic synthesis of aromatic polyesters by lipase-catalyzed polymerization of dicarboxylic acid divinyl esters and glycols
AN 1999:258643 CAPLUS
DN 131:45147
TI Enzymic synthesis of aromatic polyesters by lipase-catalyzed polymerization of dicarboxylic acid divinyl esters and glycols
AU Uyama, Hiroshi; Yaguchi, Shigeru; Kobayashi, Shiro
CS Department of Materials Chemistry, Graduate School of Engineering, Kyoto University, Kyoto, 606-8501, Japan
SO Polymer Journal (Tokyo) (1999), 31(4), 380-383
CODEN: POLJB8; ISSN: 0032-3896
PB Society of Polymer Science, Japan
DT Journal
LA English
AB Polyesters containing aromatic moieties in the main chain have been synthesized by enzymic polycondensation (loss of acetaldehyde) of dicarboxylic acid divinyl esters with glycols under mild reaction conditions. Divinyl esters of isophthalic acid, terephthalic acid, and p-phenylenediacetic acid, and p-phenylenedimethanol were used as aromatic monomers. Effects of the polymerization conditions were systematically investigated in the polymerization of divinyl isophthalate and 1,6-hexanediol. Candida antarctica lipase afforded the polymer of the highest mol. weight Methylene chain length of the glycol affected the polymer yield and mol. weight Divinyl terephthalate was enzymically polymerized under similar reaction conditions, yielding polymers of lower mol. weight
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Binding of Acetylcholine and Quaternary Ammonium Cations to Macrocyclic and Acyclic "Phane" Esters. Evaluation of the Cation-π Primary Interaction through Adaptive Aromatic Hosts
AN 1998:739908 CAPLUS
DN 130:66141

TI Binding of Acetylcholine and Quaternary Ammonium Cations to Macrocyclic and Acyclic "Phane" Esters. Evaluation of the Cation-π Primary Interaction through Adaptive Aromatic Hosts
AU Roelens, Stefano; Torriti, Riccardo
CS Centro di Studio sulla Chimica e la Struttura dei Composti Eterociclici e loro Applicazioni Dipartimento di Chimica Organica, Universita di Firenze, Firenze Italy, I-50121, Italy
SO Journal of the American Chemical Society (1998), 120(48), 12443-12452
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
AB A family of adaptive macrocyclic and acyclic "phane" esters has been designed to systematically investigate the interaction between aromatic rings and quaternary ammonium cations in the absence of superimposed contributions, such as hydrophobic, ion-pairing, macrocyclic, and preorganization contributions, to quant. evaluate the primary force at the origin of the cation-π interaction. The unprecedented association with open-chain and cyclic nonpreorganized aromatic hosts in solution is reported, including the remarkable case of binding to phenylacetate ester, that allowed the direct evaluation of the interaction with a single Ph ring. The magnitude of the cation-π attraction has been measured in CDCl3 at T = 296 K for picrate salts of acetylcholine (ACh) and tetramethylammonium (TMA), the latter showing the strongest interaction with cyclophane 1b (8.3 kJ mol-1). Results unambiguously confirmed that the basic driving force is a purely electrostatic attraction between the permanent charge of the cation and the aromatic ring. Exptl. standard binding free energies suggest that interactions of Ph rings are additive, each contributing 2 kJ mol-1 to the overall binding energy, up to a saturation limit in the range of 8 kJ mol-1, consistent with tetracoordinative capabilities of quaternary ammonium cations. Cooperative effects are displayed by the ester group, itself incapable of binding. The possible origin of the ester cooperativity is discussed.
RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Vapor deposition polymerization of dispiro[2.2.2.2]deca-4,9-diene
AN 1993:449986 CAPLUS
DN 119:49986
TI Vapor deposition polymerization of dispiro[2.2.2.2]deca-4,9-diene
AU Iwatsuki, Shouji; Kubo, Masataka; Hori, Yasutoshi
CS Fac. Eng., Mie Univ., Tsu, 514, Japan
SO Macromolecules (1993), 26(6), 1407-10
CODEN: MAMOBX; ISSN: 0024-9297
DT Journal
LA English
AB Dispiro[2.2.2.2]deca-4,9-diene (I) was sublimed under a pressure of 0.1 mmHg and was pyrolyzed at 500°. When condensed on a glass surface at 20°, the pyrolyzed gas underwent spontaneous polymerization to give poly(1,4-phenylene-1,2-dimethylethylene) (II) as a film (.hivin.Mn = 3 + 104) in 10-20% yield and oligo(1,4-phenylenetetramethylene-co-1,4-phenylene-1,2-dimethylethylene) as an oil (.hivin.Mn = (2-4) + 102) in 50-70% yield. It was proposed for the formation of the polymer film that the diradical intermediate generated in the pyrolysis of I underwent an isomerization reaction to form 7,8-dimethyl-1,4-benzoquinodimethane which polymerized spontaneously to give II film.

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                  (ROSPATENT) added to list of core patent offices covered
 NEWS  4  FEB 28  PATDPAFULL - New display fields provide for legal status
                  data from INPADOC
 NEWS  5  FEB 28  BABS - Current-awareness alerts (SDIs) available
 NEWS  6  FEB 28  MEDLINE/LMEDLINE reloaded
 NEWS  7  MAR 02  GBFULL: New full-text patent database on STN
 NEWS  8  MAR 03  REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  9  MAR 03  MEDLINE file segment of TOXCENTER reloaded
 NEWS  10 MAR 22  KOREAPAT now updated monthly; patent information enhanced
 NEWS  11 MAR 22  Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  12 MAR 22  PATDPASPC - New patent database available
 NEWS  13 MAR 22  REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  14 APR 04  EPFULL enhanced with additional patent information and new
                  fields
 NEWS  15 APR 04  EMBASE - Database reloaded and enhanced
 NEWS  16 APR 18  New CAS Information Use Policies available online

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               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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 NEWS  9  MAR 03  MEDLINE file segment of TOXCENTER reloaded
 NEWS  10 MAR 22  KOREAPAT now updated monthly; patent information enhanced
 NEWS  11 MAR 22  Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  12 MAR 22  PATDPASPC - New patent database available
 NEWS  13 MAR 22  REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  14 APR 04  EPFULL enhanced with additional patent information and new
                  fields
 NEWS  15 APR 04  EMBASE - Database reloaded and enhanced
 NEWS  16 APR 18  New CAS Information Use Policies available online
 NEWS  17 APR 25  Patent searching, including current-awareness alerts (SDIs),
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                  may be affected by a change in filing date for U.S.
                  applications.

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               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE COVERS 1907 - 26 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 25 Apr 2005 (20050425/ED)

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=> phenyalanine
L1 108 PHENYALANINE

=> phenylalanine
73297 PHENYLALANINE
733 PHENYLALANINES
L2 73592 PHENYLALANINE
(PHENYLALANINE OR PHENYLALANINES)

=> diabet?
L3 111423 DIABET?

=> l2 and l3
L4 553 L2 AND L3

=> d l4 543-553 ti

L4 ANSWER 543 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI Amino acid metabolism studies with the isolated perfused rat liver

L4 ANSWER 544 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI Amino acid metabolism in **diabetes** mellitus

L4 ANSWER 545 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI Incorporation of C14-amino acids into glutathione and protein fractions of normal and **diabetic** rat tissues

L4 ANSWER 546 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI Amino acid metabolism in disease of the liver

L4 ANSWER 547 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI **Diabetogenic** activity as an inherent property of growth hormone

L4 ANSWER 548 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI Free plasma levels and urinary excretion of eighteen amino acids in normal and **diabetic** dogs

L4 ANSWER 549 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI Excretion of free amino acids in alloxan **diabetes**

L4 ANSWER 550 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI Influence of protein on the ketone body elimination in severe **diabetes**

L4 ANSWER 551 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI "Acetone bodies" in **diabetes** mellitus

L4 ANSWER 552 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI The Breaking Down of Fatty Acids in **Diabetes** Mellitus. IV

L4 ANSWER 553 OF 553 CAPLUS COPYRIGHT 2005 ACS on STN
TI The Catabolism of Fatty Acids in **Diabetes** Mellitus. II

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34551 HOLD
24055 HOLDS
57735 HOLD
(HOLD OR HOLDS)
L5 0 LOGOFDF HOLD
(LOGOFDF(W)HOLD)

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COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 15.22 15.43

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    15.22      15.43

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    15.22      15.43

FILE 'REGISTRY' ENTERED AT 10:53:30 ON 26 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   25 APR 2005  HIGHEST RN 849177-50-0
DICTIONARY FILE UPDATES:  25 APR 2005  HIGHEST RN 849177-50-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

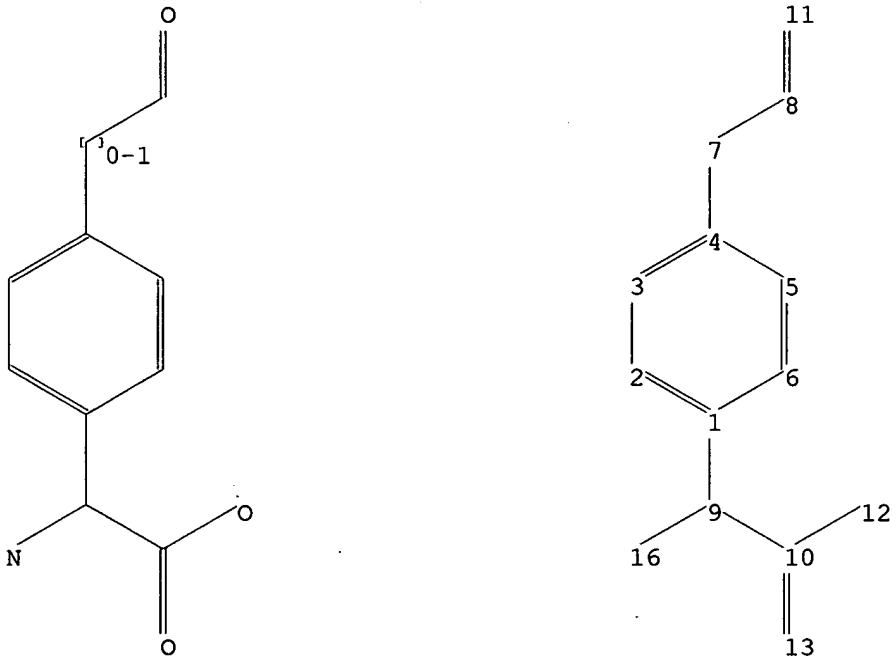
  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10797458\10797458 modified subgenus.str
```

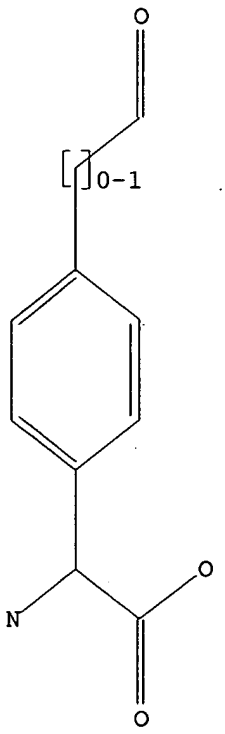


chain nodes :
7 8 9 10 11 12 13 16
ring nodes :
1 2 3 4 5 6
chain bonds :
1-9 4-7 7-8 8-11 9-10 9-16 10-12 10-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
8-11 9-16 10-12 10-13
exact bonds :
1-9 4-7 7-8 9-10
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 16:CLASS

L6 STRUCTURE UPLOADED

=> d l6
L6 HAS NO ANSWERS
L6 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> search l6 sss sam
SAMPLE SEARCH INITIATED 10:53:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   1331 TO ITERATE

 75.1% PROCESSED    1000 ITERATIONS                          1: ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

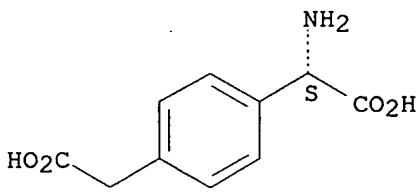
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        24432 TO    28808
PROJECTED ANSWERS:              63 TO      521

L7           11 SEA SSS SAM L6

=> d scan

L7   11 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   1,4-Benzenediacetic acid, α-amino-, (S)- (9CI)
MF   C10 H11 N O4

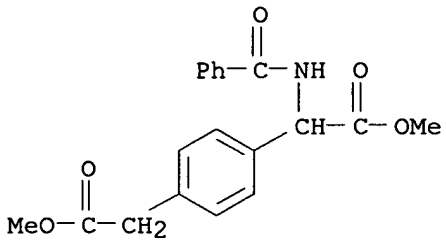
Absolute stereochemistry.  Rotation (+).
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

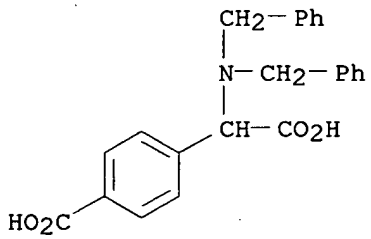
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):11

L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,4-Benzenediacetic acid, α-(benzoylamino)-, dimethyl ester (9CI)
MF C19 H19 N O5



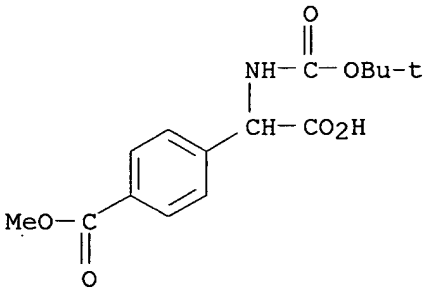
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-[bis(phenylmethyl)amino]-4-carboxy- (9CI)
MF C23 H21 N O4
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

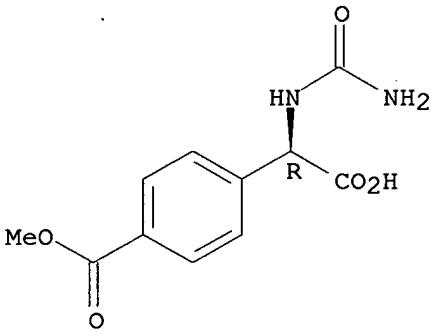
L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-[[(1,1-dimethylethoxy)carbonyl]amino]-4-(methoxycarbonyl)- (9CI)
MF C15 H19 N O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-[(aminocarbonyl)amino]-4-(methoxycarbonyl)-, (R)- (9CI)
MF C11 H12 N2 O5

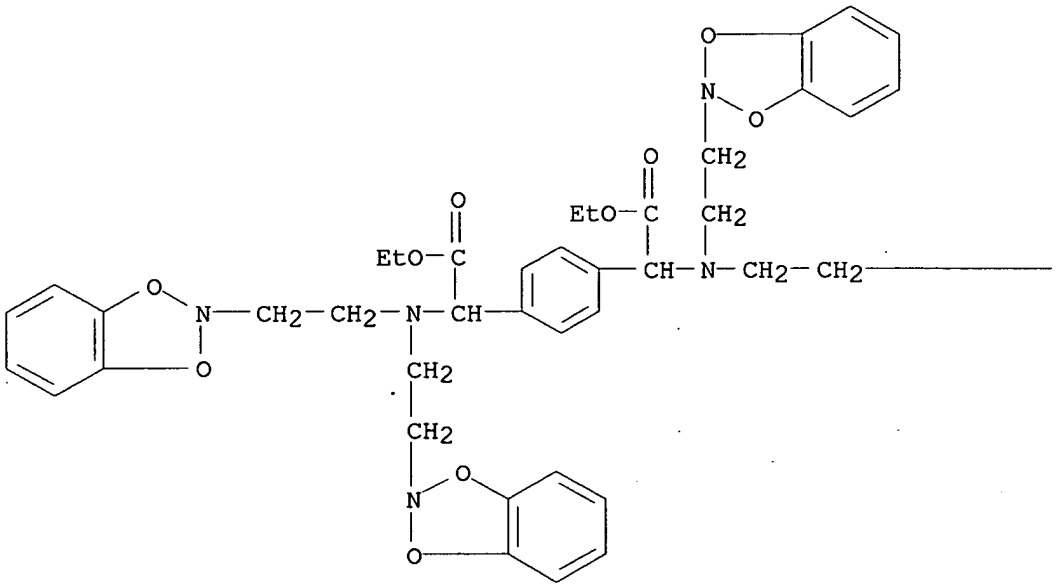
Absolute stereochemistry.



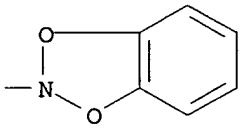
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,4-Benzenediacetic acid, α,α'-bis[bis[2-(1,3,2-benzodioxazol-2-yl)ethyl]amino]-, diethyl ester (9CI)
MF C46 H48 N6 O12

PAGE 1-A

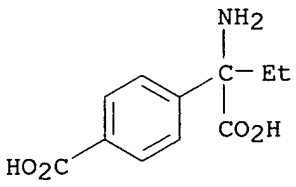


PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

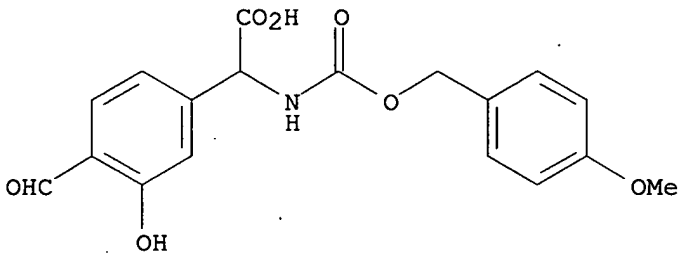
L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-carboxy-α-ethyl- (9CI)
MF C11 H13 N O4



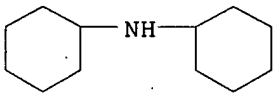
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, 4-formyl-3-hydroxy-α-[[[(4-methoxyphenyl)methoxy]carbonyl]amino]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C18 H17 N O7 . C12 H23 N

CM 1

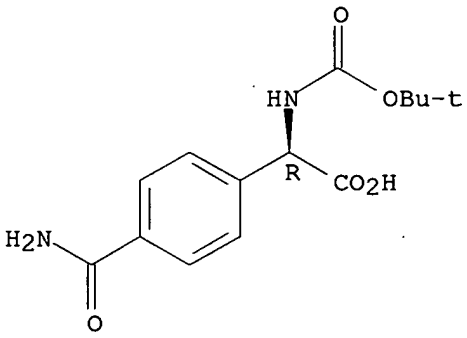


CM 2



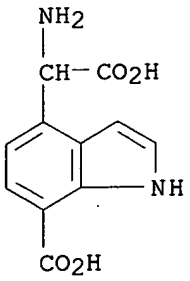
L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, 4-(aminocarbonyl)-α-[[(1,1-dimethylethoxy)carbonyl]amino]-, (αR)- (9CI)
MF C14 H18 N2 O5

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

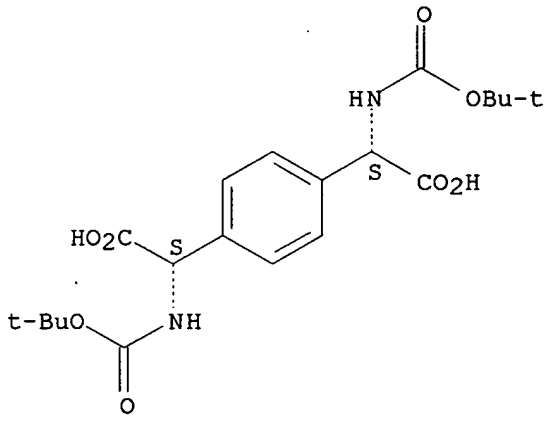
L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Indole-4-acetic acid, α-amino-7-carboxy- (9CI)
MF C11 H10 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 11 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,4-Benzenediacetic acid, α,α'-bis[[(1,1-dimethylethoxy)carbonyl]amino]-, [S-(R*,R*)]- (9CI)
MF C20 H28 N2 O8

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.86	16.29

FILE 'CAPLUS' ENTERED AT 10:54:54 ON 26 APR 2005
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FILE COVERS 1907 - 26 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 25 Apr 2005 (20050425/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 17
L8 18 L7

=> d his

(FILE 'HOME' ENTERED AT 10:44:00 ON 26 APR 2005)

FILE 'CAPLUS' ENTERED AT 10:44:33 ON 26 APR 2005
L1 108 PHENYALANINE
L2 73592 PHENYLALANINE
L3 111423 DIABET?
L4 553 L2 AND L3
L5 0 LOGOFDF HOLD

FILE 'REGISTRY' ENTERED AT 10:53:30 ON 26 APR 2005
L6 STRUCTURE UPLOADED
L7 11 SEARCH L6 SSS SAM

FILE 'CAPLUS' ENTERED AT 10:54:54 ON 26 APR 2005
L8 18 L7

=> 13 and 18
L9 0 L3 AND L8

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	16.74

FILE 'REGISTRY' ENTERED AT 10:55:45 ON 26 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 25 APR 2005 HIGHEST RN 849177-50-0
DICTIONARY FILE UPDATES: 25 APR 2005 HIGHEST RN 849177-50-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

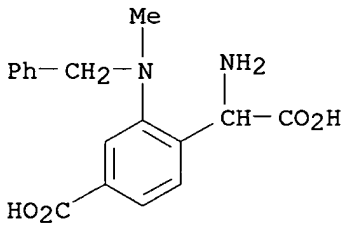
=> search l6 sss full
FULL SEARCH INITIATED 10:57:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  26327 TO ITERATE

100.0% PROCESSED   26327 ITERATIONS                          228 ANSWERS
SEARCH TIME: 00.00.01

L10         228 SEA SSS FUL L6

=> d scan

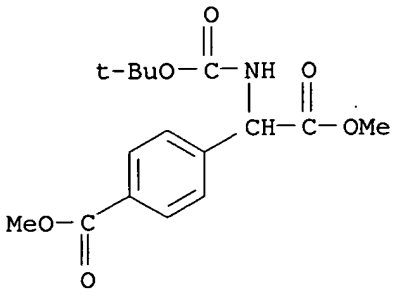
L10  228 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Benzeneacetic acid, α-amino-4-carboxy-2-[methyl(phenylmethyl)amino]-
     (9CI)
MF   C17 H18 N2 O4
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

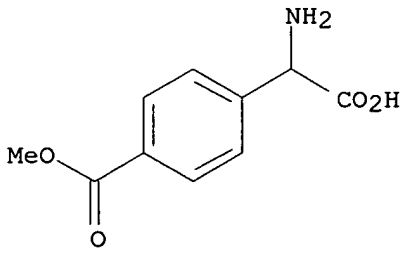
L10  228 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Benzeneacetic acid, α-[[(1,1-dimethylethoxy)carbonyl]amino]-4-
     (methoxycarbonyl)-, methyl ester (9CI)
MF   C16 H21 N O6
```



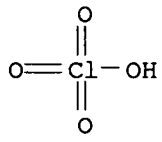
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-(methoxycarbonyl)-, perchlorate (9CI)
MF C10 H11 N O4 . Cl H O4

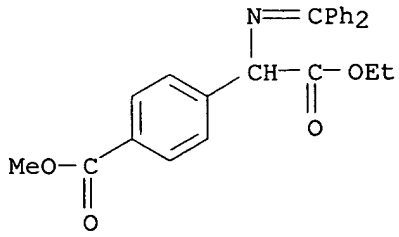
CM 1



CM 2

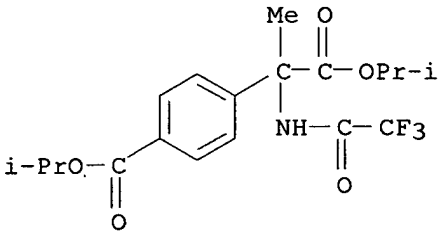


L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-[(diphenylmethylene)amino]-4-(methoxycarbonyl)-, ethyl ester (9CI)
MF C25 H23 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

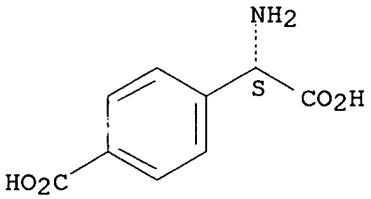
L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-methyl-4-[(1-methylethoxy)carbonyl]-α-[(trifluoroacetyl)amino]-, 1-methylethyl ester (9CI)
MF C18 H22 F3 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-carboxy-, (αS)- (9CI)
MF C9 H9 N O4

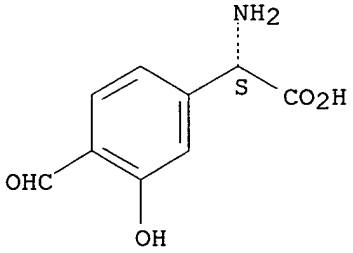
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-formyl-3-hydroxy-, (αS)- (9CI)
MF C9 H9 N O4

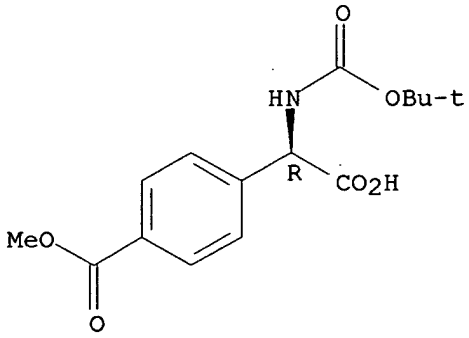
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

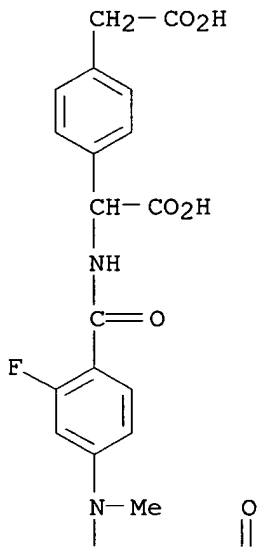
L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-[[(1,1-dimethylethoxy)carbonyl]amino]-4-(methoxycarbonyl)-, (αR)- (9CI)
MF C15 H19 N O6

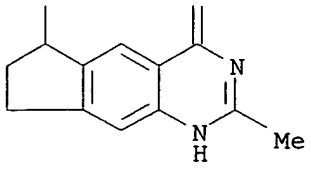
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,4-Benzenediacetic acid, α-[[2-fluoro-4-[methyl(4,6,7,8-tetrahydro-2-methyl-4-oxo-1H-cyclopenta[g]quinazolin-6-yl)amino]benzoyl]amino]- (9CI)
MF C30 H27 F N4 O6

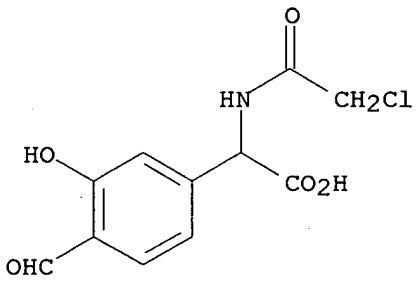




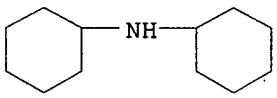
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-[(chloroacetyl)amino]-4-formyl-3-hydroxy-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C12 H23 N . C11 H10 Cl N O5

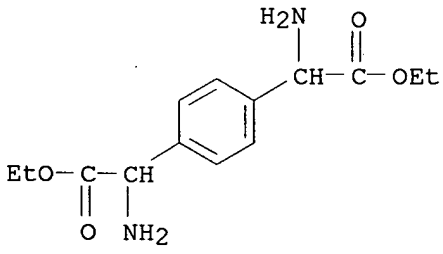
CM 1



CM 2



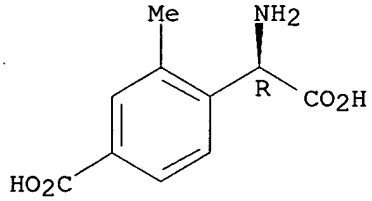
L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,4-Benzenediacetic acid, α,α'-diamino-, diethyl ester (9CI)
MF C14 H20 N2 O4
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

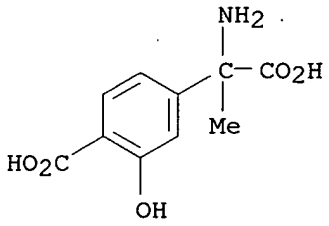
L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-carboxy-2-methyl-, (R)- (9CI)
MF C10 H11 N O4

Absolute stereochemistry. Rotation (-).



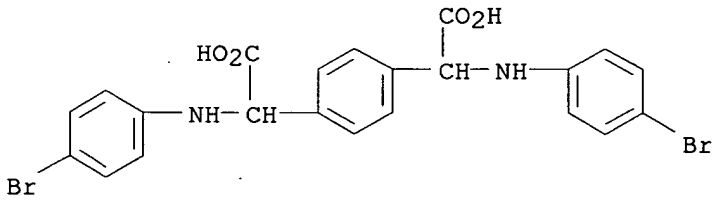
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-carboxy-3-hydroxy-α-methyl- (9CI)
MF C10 H11 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

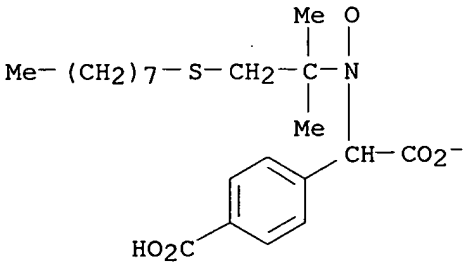
L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,4-Benzenediacetic acid, α,α'-bis[(4-bromophenyl)amino]- (9CI)
MF C22 H18 Br2 N2 O4



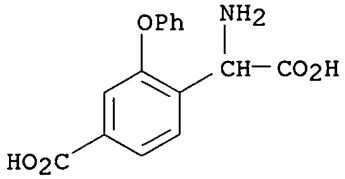
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Nitroxide, carboxy(4-carboxyphenyl)methyl 1,1-dimethyl-2-(octylthio)ethyl,

ion(1-) (9CI)
MF C21 H31 N O5 S
CI COM

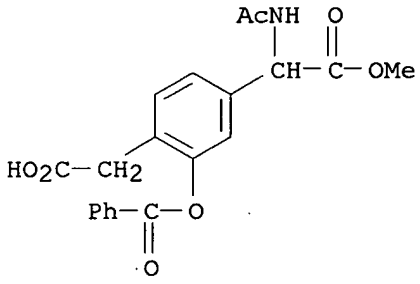


L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-carboxy-2-phenoxy- (9CI)
MF C15 H13 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,4-Benzenediacetic acid, α4-(acetylamino)-2-(benzoyloxy)-, 4-methyl ester (9CI)
MF C20 H19 N O7

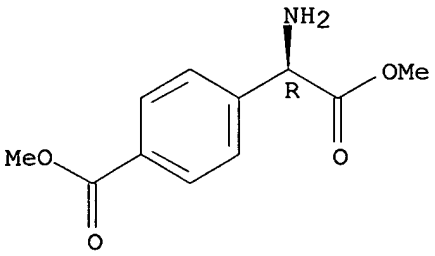


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

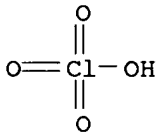
L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-(methoxycarbonyl)-, methyl ester, (R)-, perchlorate (9CI)
MF C11 H13 N O4 . Cl H O4

CM 1

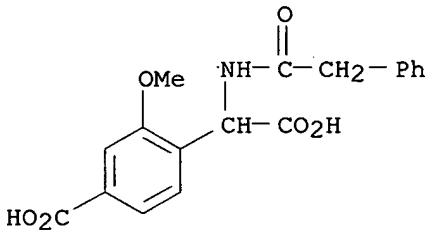
Absolute stereochemistry.



CM 2

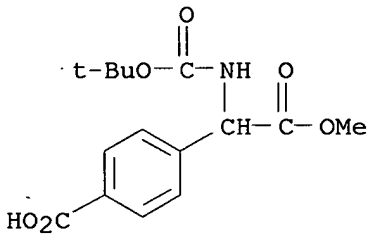


L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, 4-carboxy-2-methoxy-α-[(phenylacetyl)amino]-
(9CI)
MF C18 H17 N O6



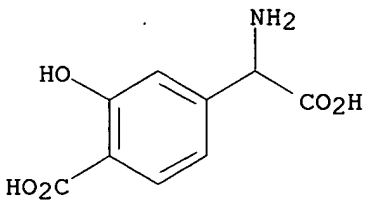
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, 4-carboxy-α-[[(1,1-dimethylethoxy)carbonyl]amino
]-, α-methyl ester (9CI)
MF C15 H19 N O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 228 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, α-amino-4-carboxy-3-hydroxy- (9CI)
MF C9 H9 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):file caplus
'FILE CAPLUS' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	162.19	178.93

FILE 'CAPLUS' ENTERED AT 10:57:43 ON 26 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 26 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 25 Apr 2005 (20050425/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l10
L11 337 L10

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=> d his

     (FILE 'HOME' ENTERED AT 10:44:00 ON 26 APR 2005)

     FILE 'CAPLUS' ENTERED AT 10:44:33 ON 26 APR 2005
L1           108 PHENYALANINE
L2         73592 PHENYLALANINE
L3        111423 DIABET?
L4           553 L2 AND L3
L5             0 LOGOFDF HOLD

     FILE 'REGISTRY' ENTERED AT 10:53:30 ON 26 APR 2005
L6                 STRUCTURE UPLOADED
L7            11 SEARCH L6 SSS SAM

     FILE 'CAPLUS' ENTERED AT 10:54:54 ON 26 APR 2005
L8            18 L7
L9             0 L3 AND L8

     FILE 'REGISTRY' ENTERED AT 10:55:45 ON 26 APR 2005
L10          228 SEARCH L6 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:57:43 ON 26 APR 2005
L11          337 L10

=> l3 and l11
L12            0 L3 AND L11

=> phenyl acetic
         321396 PHENYL
            384 PHENYLS
         321656 PHENYL
                   (PHENYL OR PHENYLS)
        1225166 PH
           9328 PHS
        1229262 PH
                   (PH OR PHS)
        1465011 PHENYL
                   (PHENYL OR PH)
         211465 ACETIC
             22 ACETICS
         211474 ACETIC
                   (ACETIC OR ACETICS)
L13          875 PHENYL ACETIC
                   (PHENYL(W)ACETIC)

=> phenylacetic
L14         8713 PHENYLACETIC

=> d hid
'HID' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
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FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

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     (FILE 'HOME' ENTERED AT 10:44:00 ON 26 APR 2005)

     FILE 'CAPLUS' ENTERED AT 10:44:33 ON 26 APR 2005
L1           108 PHENYALANINE
L2         73592 PHENYLALANINE
L3        111423 DIABET?
L4           553 L2 AND L3
L5             0 LOGOFDF HOLD

     FILE 'REGISTRY' ENTERED AT 10:53:30 ON 26 APR 2005
L6                STRUCTURE UPLOADED
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L7            11 SEARCH L6 SSS SAM

     FILE 'CAPLUS' ENTERED AT 10:54:54 ON 26 APR 2005
L8            18 L7
L9             0 L3 AND L8

     FILE 'REGISTRY' ENTERED AT 10:55:45 ON 26 APR 2005
L10          228 SEARCH L6 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:57:43 ON 26 APR 2005
L11          337 L10
L12            0 L3 AND L11
L13          875 PHENYL ACETIC
L14         8713 PHENYLACETIC

=> l3 and l14
L15          107 L3 AND L14

=> d 97-107 til15
'TIL15' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
```

FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l15 97-107 ti

L15 ANSWER 97 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Benzothiazol-2-ylcarboxylic acids with diverse spacers: a novel class of potent, orally active aldose reductase inhibitors

L15 ANSWER 98 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI In vitro and in vivo suppression of gluconeogenesis by inhibition of pyruvate carboxylase

L15 ANSWER 99 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI 4-[2-(2-hydroxy-2-phenylethylamino)ethyl]**phenylacetic** acid as β3-adrenoceptor agonist

L15 ANSWER 100 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Compositions and methods for treating autoimmune diseases

L15 ANSWER 101 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cyclohexylamides and tachykinin inhibitors containing the cyclohexylamides for pharmaceutical preparations

L15 ANSWER 102 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of N-substituted heterocyclic derivatives and their pharmaceutical compositions as angiotensin II receptor antagonists

L15 ANSWER 103 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of (phenylalkyl)propanolamine derivatives as antidiabetics as antiobesity agents

L15 ANSWER 104 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Urinary organic acids in natural early-onset insulin-dependent **diabetic** dogs

L15 ANSWER 105 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI N-benzyl-2-phenylacetamide derivatives and their use as hypoglycemics

L15 ANSWER 106 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Pharmacological studies on oral hypoglycemic agents

L15 ANSWER 107 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Proteins and the Deposition of Fat in the Liver

=> d l15 99,103-105 ti fbib abs

L15 ANSWER 99 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI 4-[2-(2-hydroxy-2-phenylethylamino)ethyl]**phenylacetic** acid as β3-adrenoceptor agonist
AN 1994:244357 CAPLUS
DN 120:244357
TI 4-[2-(2-hydroxy-2-phenylethylamino)ethyl]**phenylacetic** acid as β3-adrenoceptor agonist
IN Holloway, Brian Roy; Howe, Ralph; Rao, Balbir Singh
PA Zeneca Ltd., UK
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9322277	A1	19931111	WO 1993-GB821	19930420
	W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
				GB 1992-9076	A 19920427
	ZA 9302734	A	19940202	ZA 1993-2734	19930419
				GB 1992-9076	A 19920427
	CA 2111967	AA	19931111	CA 1993-2111967	19930420
				GB 1992-9076	A 19920427
	AU 9339612	A1	19931129	AU 1993-39612	19930420
				GB 1992-9076	A 19920427
				WO 1993-GB821	A 19930420
	EP 591503	A1	19940413	EP 1993-909068	19930420
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
				GB 1992-9076	A 19920427
				WO 1993-GB821	W 19930420
	JP 08501770	T2	19960227	JP 1993-519032	19930420
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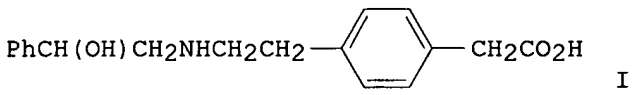
				WO 1993-GB821	W 19930420

OS CASREACT 120:244357; MARPAT 120:244357
GI



I

AB The title compound I and in-vivo hydrolyzable esters and pharmaceutically acceptable salts are prepared and shown to have β3-adrenoceptor agonist activity and antiobesity, hypoglycemic, and related therapeutic utilities. I intermediates are also prepared and I-containing formulations presented.

L15 ANSWER 103 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of (phenylalkyl)propanolamine derivatives as antidiabetics as antiobesity agents
AN 1990:234956 CAPLUS
DN 112:234956
TI Preparation of (phenylalkyl)propanolamine derivatives as antidiabetics as antiobesity agents
IN Kienzle, Frank

PA Hoffmann-La Roche, F., und Co. A.-G., Switz.
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 345591	A1	19891213	EP 1989-109675		19890530
	EP 345591	B1	19930331			
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
				CH 1988-2245	A	19880610
	FI 8902341	A	19891211	FI 1989-2341		19890516
				CH 1988-2245	A	19880610
	AT 87610	E	19930415	AT 1989-109675		19890530
				CH 1988-2245	A	19880610
				EP 1989-109675	A	19890530
	ES 2053866	T3	19940801	ES 1989-109675		19890530
				CH 1988-2245	A	19880610
	ZA 8904210	A	19900328	ZA 1989-4210		19890602
				CH 1988-2245	A	19880610
	AU 8936026	A1	19891214	AU 1989-36026		19890605
	AU 622907	B2	19920430			
				CH 1988-2245	A	19880610
	HU 55344	A2	19910528	HU 1989-2868		19890605
				CH 1988-2245	A	19880610
	JP 02036158	A2	19900206	JP 1989-144282		19890608
				CH 1988-2245	A	19880610
	DK 8902842	A	19891211	DK 1989-2842		19890609
				CH 1988-2245	A	19880610
	NO 8902387	A	19891211	NO 1989-2387		19890609
	NO 170011	B	19920525			
	NO 170011	C	19920902			
				CH 1988-2245	A	19880610
	US 5045567	A	19910903	US 1990-608610		19901031
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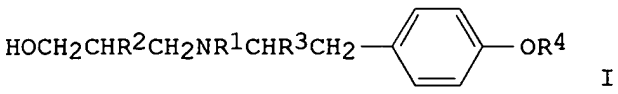
				US 1989-363242	B1	19890508

OS MARPAT 112:234956
GI



I

AB The title compds. I [R1 = H or CH2CHR5(CH2)nOH, R5 = Ph, m-halophenyl, m-F3CC6H4, thienyl, or pyridyl; R2 = R5 ; R3 = H, Me; R4 = H, HO2CCH2, C1-4 alkoxycarbonylmethyl, C1-4 alkoxyethyl, or Ph C1-4 alkyloxyethyl) and their compatible physiol. salts having a catabolic effect are prepared for use in the treatment of obesity, **diabetes** mellitus, conditions involving increased protein degradation, and as food additives for obese animals. Thus, di-Et phenylmalonate in diglyme was treated with p-(2-ethoxyethoxy)phenethylamine, the solution stirred 48 h at 95°, cooled, the solvent removed, and the residue chromatog. purified to give Et [[[p-(2-ethoxyethoxy)phenethyl]carbamoyl]phenyl]acetate (II). The effects of II on the O consumption of albino rats showed its effectiveness in treating obesity.

L15 ANSWER 104 OF 107 CAPLUS

TI Urinary organic acids in natural early-onset insulin-dependent **diabetic** dogs
AN 1988:627815 CAPLUS
DN 109:227815
TI Urinary organic acids in natural early-onset insulin-dependent **diabetic** dogs
AU Shigematsu, Yosuke; Sweeley, Charles C.; Schall, William D.; Gossain, Ved
CS Dep. Biochem., Michigan State Univ., East Lansing, MI, 48824, USA
SO Acta Paediatrica Japonica (1988), 30(3), 285-93
CODEN: APDJBE; ISSN: 0374-5600
DT Journal
LA English
AB The urinary organic acids of spontaneously-occurring, insulin-dependent **diabetic** dogs under insulin therapy were compared with those of normal dogs, using a semi-automated sample injection-capillary gas chromatograph-computerized data processing system. The following acids were excreted in significantly greater amts. by **diabetic** dogs: 2-hydroxybutyric, 4-deoxytetronic, 3-hydroxybutyric, acetoacetic, arabinonic, erythronic, 3-deoxytetraonic, 2-deoxyribonic, lactic, pyruvic, 2-hydroxyisobutyric and 2-hydroxyisovaleric acids. Not only ketone bodies, but also the metabolites of threonine, 2-hydroxybutyric acid and 4-deoxytetronic acids appear to be important and sensitive markers for the metabolic state in insulin-treated **diabetic** dogs, although the changes in these acids are not always well correlated with each other.

L15 ANSWER 105 OF 107 CAPLUS COPYRIGHT 2005 ACS on STN
TI N-benzyl-2-phenylacetamide derivatives and their use as hypoglycemics
AN 1987:138092 CAPLUS
DN 106:138092
TI N-benzyl-2-phenylacetamide derivatives and their use as hypoglycemics
IN Grell, Wolfgang; Hurnaus, Rudolf; Sauter, Robert; Reiffen, Manfred; Rupprecht, Eckhard
PA Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.
SO Ger. Offen., 29 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 3523466	A1	19870108	DE 1985-3523466		19850701
	EP 208200	A1	19870114	EP 1986-108640		19860625
	EP 208200	B1	19900425			
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				DE 1985-3523466	A	19850701
	AT 52255	E	19900515	AT 1986-108640		19860625
				DE 1985-3523466	A	19850701
				EP 1986-108640	A	19860625
	CA 1320723	A1	19930727	CA 1986-512614		19860627
				DE 1985-3523466	A	19850701
	DK 8603109	A	19870102	DK 1986-3109		19860630
	DK 168741	B1	19940530			
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	FI 8602764	A	19870102	FI 1986-2764		19860630
	FI 83417	B	19910328			
	FI 83417	C	19910710			
				DE 1985-3523466	A	19850701
	NO 8602631	A	19870102	NO 1986-2631		19860630
	NO 167736	B	19910826			
	NO 167736	C	19911204			
				DE 1985-3523466	A	19850701
	AU 8659383	A1	19870108	AU 1986-59383		19860630
	AU 587263	B2	19890810			

				DE 1985-3523466	A	19850701
JP 62005974	A2	19870112		JP 1986-151864		19860630
JP 07039406	B4	19950501				
				DE 1985-3523466	A	19850701
HU 43030	A2	19870928		HU 1986-2724		19860630
HU 196193	B	19881028				
				DE 1985-3523466	A	19850701
ES 2000443	A6	19880301		ES 1986-56		19860630
				DE 1985-3523466	A	19850701
ZA 8604833	A	19880330		ZA 1986-4833		19860630
				DE 1985-3523466	A	19850701
ES 2003629	A6	19881101		ES 1986-3480		19861218
				DE 1985-3523466	A	19850701
ES 2003758	A6	19881116		ES 1986-3481		19861218
				DE 1985-3523466	A	19850701
US 5216167	A	19930601		US 1990-495820		19900621
				DE 1983-3347565	A	19831230
				US 1984-684054	B2	19841210
				DE 1985-3522604	A	19850625
				DE 1985-3523466	A	19850701
				US 1986-872706	B2	19860610
				US 1986-878921	B2	19860626
				US 1989-302022	B1	19890125
US 5312924	A	19940517		US 1992-919820		19920724
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				US 1990-495820	A2	19900621
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				US 1984-684054	B2	19841210
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				DE 1985-3523466	A	19850701
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				US 1986-878921	B2	19860626
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				US 1992-919820	A1	19920724
US 37035	E	20010130		US 1997-946602		19971007
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				DE 1985-3522604	A	19850625
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				US 1986-872706	B2	19860610
				US 1986-878921	B2	19860626
				US 1989-302022	B1	19890125
				US 1990-495820	A5	19900621
				US 1984-684054	B2	19941210

PATENT FAMILY INFORMATION:

FAN 1986:5651

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 3347565	A1	19850711	DE 1983-3347565		19831230
	DK 8406131	A	19850701	DK 1984-6131		19841220
	DK 167439	B1	19931101			
				DE 1983-3347565	A	19831230
	JP 60158171	A2	19850819	JP 1984-272685		19841224
	JP 06023200	B4	19940330			
				DE 1983-3347565	A	19831230
	EP 147850	A2	19850710	EP 1984-116359		19841227
	EP 147850	A3	19850807			
	EP 147850	B1	19890614			

R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE

			DE 1983-3347565	A	19831230
ES 539078	A1	19860316	ES 1984-539078		19841227
			DE 1983-3347565	A	19831230
AT 44027	E	19890615	AT 1984-116359		19841227
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FI 8405145	A	19850701	FI 1984-5145		19841228
FI 80447	B	19900228			
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NO 8405282	A	19850701	NO 1984-5282		19841228
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AU 8437210	A1	19850801	AU 1984-37210		19841228
AU 577815	B2	19881006			
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DD 231348	A5	19851224	DD 1984-272061		19841228
			DE 1983-3347565	A	19831230
HU 37773	A2	19860228	HU 1984-4870		19841228
HU 194548	B	19880229			
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ZA 8410103	A	19860924	ZA 1984-10103		19841228
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CA 1225398	A1	19870811	CA 1984-471120		19841228
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ES 545879	A1	19860201	ES 1985-545879		19850805
			DE 1983-3347565	A	19831230
ES 545880	A1	19860201	ES 1985-545880		19850805
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ES 545881	A1	19860201	ES 1985-545881		19850805
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			DE 1983-3347565	A	19831230
			US 1984-684054	B2	19841210
			DE 1985-3522604	A	19850625
			DE 1985-3523466	A	19850701
			US 1986-872706	B2	19860610
			US 1986-878921	B2	19860626
			US 1989-302022	B1	19890125
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			US 1986-872706	B2	19860610
			US 1986-878921	B2	19860626
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			US 1990-495820	A2	19900621
US 6143769	A	20001107	US 1994-180587		19940509
			DE 1983-3347565	A	19831230
			US 1984-684054	B2	19841210
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			DE 1985-3523466	A	19850701
			US 1986-872706	B2	19860610
			US 1986-878921	B2	19860626
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	US 37035	E	20010130	US 1997-946602		19971007
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				DE 1985-3522604	A	19850625
				DE 1985-3523466	A	19850701
				US 1986-872706	B2	19860610
				US 1986-878921	B2	19860626
				US 1989-302022	B1	19890125
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				US 1984-684054	B2	19941210

FAN 1987:196260

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
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				DE 1983-3347565		19831230
	DE 3347565	A1	19850711	DE 1983-3347565		19831230
	EP 207331	A1	19870107	EP 1986-107890		19860610
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	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
				DE 1985-3522604	A	19850625
	AT 53028	E	19900615	AT 1986-107890		19860610
				DE 1985-3522604	A	19850625
				EP 1986-107890	A	19860610
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	FI 82689	B	19901231			
	FI 82689	C	19910410			
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	DK 167573	B1	19931122			
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	NO 168302	B	19911028			
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				DE 1985-3523466	A	19850701
				US 1986-872706	B2	19860610
				US 1986-878921	B2	19860626
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				US 1984-684054	B2	19841210
				US 1986-872706	B2	19860610
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				US 1989-302022	B1 19890125
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				DE 1985-3523466	A 19850701
				US 1986-872706	B2 19860610
				US 1986-878921	B2 19860626
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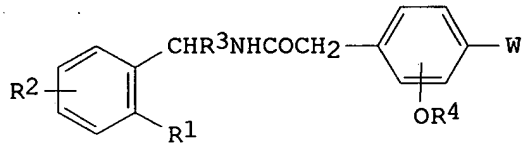
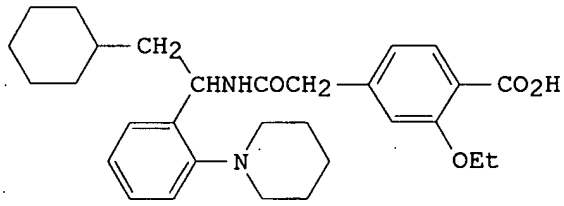
				US 1984-684054	B2 19941210

GI



I



II

AB The title compds. [I; R1 = (un)substituted alkylenimino; R2 = H, Me, MeO, halo; R3 = H, CO2H, alkoxycarbonyl, (un)substituted alkyl, Ph; R4 = H, alkyl, CH2:CHCH2; W = CHO, CO2H, R5CH2, R6CH2CH2, R7CH:CH; R5 = H, OH, CO2H, cyano; R6 = CO2H, cyano; R7 = CO2H, cyano, alkoxycarbonyl] and their enantiomers and salts were prepared as hypoglycemic agents. α-(Cyclohexylmethyl)-2-piperidinobenzylamine was amidated with 3-(EtO)-4-(EtO2C)C6H3CH2CO2H (68%) and the product was saponified to give 82% title compound II. In rats 0.5 mg II/kg orally reduced blood sugar 22% after 1 h and 45% after 4 h.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	34.44	213.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.92	-2.92

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:08:25 ON 26 APR 2005

Connecting via Winsock to STN

```
Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:32:11 ON 26 APR 2005
FILE 'CAPLUS' ENTERED AT 11:32:11 ON 26 APR 2005
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      34.44     213.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -2.92      -2.92

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      34.89     213.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -2.92      -2.92

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:32:40 ON 26 APR 2005

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 12:14:48 ON 26 APR 2005
FILE 'CAPLUS' ENTERED AT 12:14:48 ON 26 APR 2005
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      34.89     213.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -2.92      -2.92

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      34.89     213.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -2.92      -2.92
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FILE 'REGISTRY' ENTERED AT 12:14:55 ON 26 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2005 HIGHEST RN 849177-50-0
DICTIONARY FILE UPDATES: 25 APR 2005 HIGHEST RN 849177-50-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

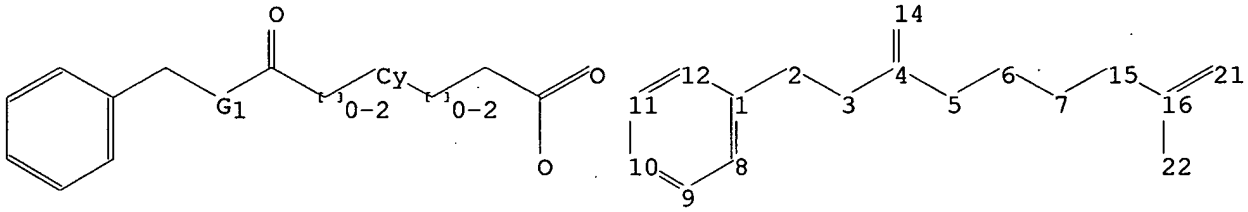
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10797458\10797458 modified subgenus 2.str



chain nodes :
2 3 4 5 6 7 14 15 16 21 22
ring nodes :
1 8 9 10 11 12
chain bonds :
1-2 2-3 3-4 4-5 4-14 5-6 6-7 7-15 15-16 16-21 16-22
ring bonds :
1-8 1-12 8-9 9-10 10-11 11-12
exact/norm bonds :
2-3 3-4 4-14 5-6 6-7 16-21 16-22
exact bonds :
1-2 4-5 7-15 15-16
normalized bonds :

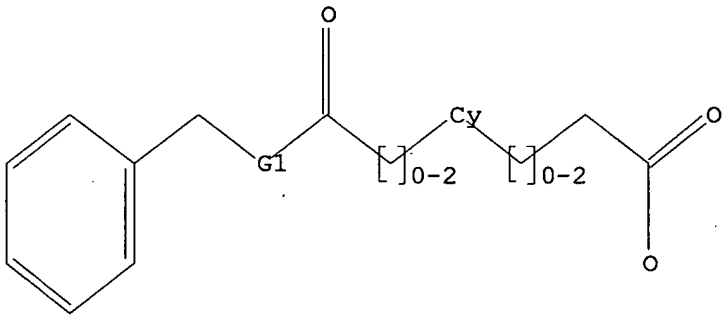
1-8 1-12 8-9 9-10 10-11 11-12

G1:C,O,S,N,SO2

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:CLASS 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 14:CLASS 15:CLASS 16:CLASS 21:CLASS 22:CLASS
Generic attributes :
6:
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

L16 STRUCTURE UPLOADED

=> d l16
L16 HAS NO ANSWERS
L16 STR



G1 C,O,S,N,SO2

Structure attributes must be viewed using STN Express query preparation.

=> search l16 sss sam
SAMPLE SEARCH INITIATED 12:15:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 65654 TO ITERATE

1.5% PROCESSED 1000 ITERATIONS 2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

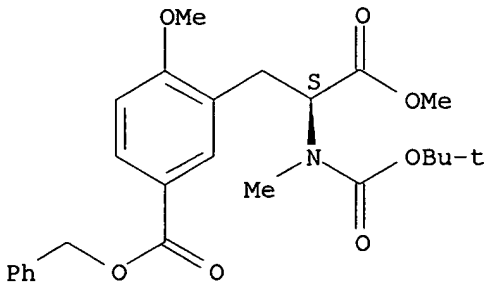
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 1939

L17 2 SEA SSS SAM L16

=> d scan

L17 2 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN L-Phenylalanine, N-[(1,1-dimethylethoxy)carbonyl]-2-methoxy-N-methyl-5-[(phenylmethoxy)carbonyl]-, methyl ester (9CI)
MF C25 H31 N O7

Absolute stereochemistry.

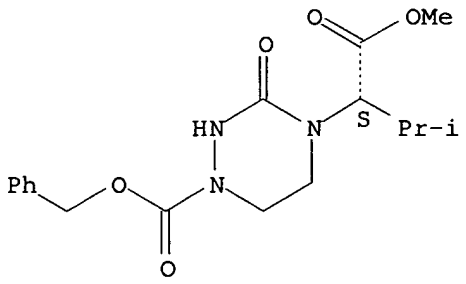


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L17 2 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,2,4-Triazine-4(1H)-acetic acid, tetrahydro-α-(1-methylethyl)-3-oxo-1-[(phenylmethoxy)carbonyl]-, methyl ester, (αS)- (9CI)
MF C17 H23 N3 O5

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.86	214.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.92

FILE 'CAPLUS' ENTERED AT 12:15:49 ON 26 APR 2005

FILE COVERS 1907 - 26 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 25 Apr 2005 (20050425/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> l17
L18           4 L17

=> d l18 1-4 ti

L18  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Preparation of peptide analogs as retroviral protease inhibitors

L18  ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Preparation of peptide analogs as retroviral protease inhibitors

L18  ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Preparation and formulation of N-(α-aminoacyl)diaminohydroxyalkanes
     as HIV protease inhibitors

L18  ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Syntheses of peptide alkaloids, IX.  Amino acids and peptides, XLVI.
     Total synthesis of mucronin B


=> d his

     (FILE 'HOME' ENTERED AT 10:44:00 ON 26 APR 2005)

     FILE 'CAPLUS' ENTERED AT 10:44:33 ON 26 APR 2005
L1            108 PHENYALANINE
L2          73592 PHENYLALANINE
L3         111423 DIABET?
L4            553 L2 AND L3
L5              0 LOGOFDF HOLD

     FILE 'REGISTRY' ENTERED AT 10:53:30 ON 26 APR 2005
L6                STRUCTURE UPLOADED
L7             11 SEARCH L6 SSS SAM

     FILE 'CAPLUS' ENTERED AT 10:54:54 ON 26 APR 2005
L8             18 L7
L9              0 L3 AND L8

     FILE 'REGISTRY' ENTERED AT 10:55:45 ON 26 APR 2005
L10           228 SEARCH L6 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:57:43 ON 26 APR 2005
```

```
L11          337 L10
L12            0 L3 AND L11
L13          875 PHENYL ACETIC
L14         8713 PHENYLACETIC
L15          107 L3 AND L14

     FILE 'REGISTRY' ENTERED AT 12:14:55 ON 26 APR 2005
L16             STRUCTURE UPLOADED
L17            2 SEARCH L16 SSS SAM

     FILE 'CAPLUS' ENTERED AT 12:15:49 ON 26 APR 2005
L18            4 L17

=> l3 and l18
L19          0 L3 AND L18

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       2.18     216.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -2.92

FILE 'REGISTRY' ENTERED AT 12:16:44 ON 26 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES:   25 APR 2005  HIGHEST RN 849177-50-0
DICTIONARY FILE UPDATES:  25 APR 2005  HIGHEST RN 849177-50-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> search l16 sss full
FULL SEARCH INITIATED 12:17:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE
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< 24.5% PROCESSED 320813 ITERATIONS 1171 ANSWERS

< 30.5% PROCESSED 400000 ITERATIONS 1363 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.29

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 4269

L20 1363 SEA SSS FUL L16

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.76	378.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.92

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FILE COVERS 1907 - 26 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 25 Apr 2005 (20050425/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l20
L21 206 L20

=> l3 and l21
L22 35 L3 AND L21

=> d l22 25-35 ti

L22 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of 3-(oxazolylalkoxyphenyl)propionic acids and analogs as modulators of peroxisome proliferator activated receptors for treatment of **diabetes** and related conditions

L22 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of benzyloxyphenyloxobutyrates and related compounds for the treatment of metabolic disorders

L22 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of pyrrolidine, piperidine, or piperazine amino acid derivatives as melanocortin receptor ligands

L22 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Dipeptidyl peptidase inhibitors for the treatment or prevention of **diabetes**

L22 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of indolizinylpyrrole derivates for treating cytokine mediated diseases

L22 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of phenylalkanoic acid derivatives as peroxisome proliferator activated receptor (PPAR) agonists

L22 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of phenylalkenoic acid derivatives and phenylalkanoic acid derivatives as PPARα agonists for treatment of hyperlipidemia, arteriosclerosis, obesity, and **diabetes**

L22 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of (phenymethyl)alkanoic acid derivatives as PPARα agonists for treatment of arteriosclerosis, obesity, **diabetes**, etc.

L22 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of (phenylmethyl)alkanoic acid derivatives as PPARα (peroxisome proliferator-activated receptor α) agonists useful in treatment of hyperlipidemia, arteriosclerosis, obesity, and **diabetes**

L22 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of phenylmethylalkanoic acid derivatives as PPARα agonists useful in the treatment of hyperlipidemia, arteriosclerosis, **diabetes**, and obesity

L22 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Enantio-dependent binding and transactivation of optically active phenylpropanoic acid derivatives at human peroxisome proliferator-activated receptor alpha

=> d l22 25,26,31,32-35 ti fbib abs

L22 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of 3-(oxazolylalkoxyphenyl)propionic acids and analogs as modulators of peroxisome proliferator activated receptors for treatment of **diabetes** and related conditions
AN 2002:964190 CAPLUS
DN 138:39272
TI Preparation of 3-(oxazolylalkoxyphenyl)propionic acids and analogs as modulators of peroxisome proliferator activated receptors for treatment of **diabetes** and related conditions
IN Gossett, Lynn Stacy; Green, Jonathan Edward; Henry, James Robert; Jones, Winton Dennis, Jr.; Matthews, Donald Paul; Shen, Quan Rong; Smith, Daryl Lynn; Vance, Jennifer Ann; Warshawsky, Alan M.
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 438 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002100403	A1	20021219	WO 2002-US15143	20020524
	W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				US 2001-296701P	P 20010607
	NZ 529550	A	20031219	NZ 2002-529550	20020524
				US 2001-296701P	P 20010607
	EP 1401434	A1	20040331	EP 2002-746380	20020524
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
				US 2001-296701P	P 20010607
				WO 2002-US15143	W 20020524
	BR 2002010167	A	20040406	BR 2002-10167	20020524
				US 2001-296701P	P 20010607
				WO 2002-US15143	W 20020524
	JP 2005502600	T2	20050127	JP 2003-503224	20020524
				US 2001-296701P	P 20010607
				WO 2002-US15143	W 20020524
	US 2005075378	A1	20050407	US 2003-477405	20031112
				US 2001-296701P	P 20010607
				WO 2002-US15143	W 20020524

OS MARPAT 138:39272

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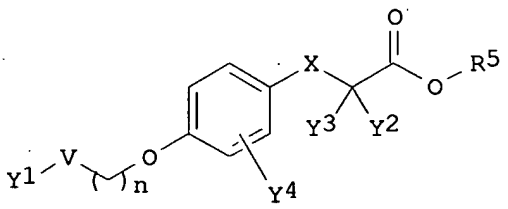

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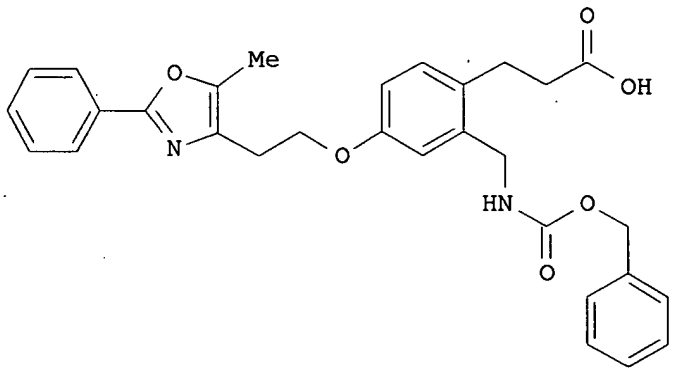

II

AB Title compds. I [wherein n = 2-5; V = a bond or O; X = CH2 or O; p = 0 or 1; m = 1-4; Y1 = (un)substituted (hetero)aryl; Y2 and Y3 = independently H, alkyl, or alkoxy; Y4 = (un)substituted alk(en/yn)ylaminoalkyl, carboxyaminoalkyl, (thio)ureidoalkyl, carbamoylalkyl, aminoalkyl,

alkoxyalkyl, alkylthioalkyl, or CN; R5 = H or alkyl; and pharmaceutically acceptable salts, solvates, hydrates, or stereoisomers thereof] were prepared as peroxisome proliferator activated receptor (PPAR) modulators (no data). For example, 3-[2-(1,3-dioxo-1,3-dihydroisoindolo-2-ylmethyl)-4-hydroxyphenyl]propionic acid tert-Bu ester was coupled with toluene-4-sulfonic acid 2-(5-methyl-2-phenyloxazol-4-yl)ethyl ester in the presence of Cs2CO3 in DMF. Deprotection of the amine using NaBH4 in isopropanol followed by conversion to the carbamate and deesterification gave II. I are useful for the treatment of Syndrome X, Type II **diabetes**, hyperglycemia, hyperlipidemia, obesity, coagulopathy, hypertension, arteriosclerosis, and other disorders related to Syndrome X, as well as cardiovascular diseases (no data).

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of benzyloxyphenyloxobutyrates and related compounds for the treatment of metabolic disorders
AN 2002:964135 CAPLUS
DN 138:24543
TI Preparation of benzyloxyphenyloxobutyrates and related compounds for the treatment of metabolic disorders
IN Sharma, Shalini; Von Borstel, Reid W.; Hodge, Kirvin L.
PA Wellstat Therapeutics Corporation, USA; Bamat, Michael K.
SO PCT Int. Appl., 242 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 2002100341	A2	20021219	WO 2002-US18388		20020612
	WO 2002100341	A3	20040701			
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW					
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
				US 2001-297282P	P	20010612
	US 2003149107	A1	20030807	US 2002-167839		20020612
				US 2001-297282P	P	20010612
	EP 1461323	A2	20040929	EP 2002-744271		20020612
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR					
				US 2001-297282P	P	20010612
				WO 2002-US18388	W	20020612
	JP 2005501012	T2	20050113	JP 2003-503168		20020612
				US 2001-297282P	P	20010612
				WO 2002-US18388	W	20020612
	US 2004077896	A1	20040422	US 2003-684644		20031014
				US 2001-297282P	P	20010612
				US 2002-167839	A3	20020612
	US 2004092518	A1	20040513	US 2003-684735		20031014
				US 2001-297282P	P	20010612
				US 2002-167839	A3	20020612
	US 2004092516	A1	20040513	US 2003-685183		20031014
				US 2002-167839	A3	20020612
	US 2004097585	A1	20040520	US 2003-684730		20031014

			US 2001-297282P	P	20010612
			US 2002-167839	A3	20020612
US 2004236100	A1	20041125	US 2003-684660		20031014
US 6858602	B2	20050222			
			US 2001-297282P	P	20010612
			US 2002-167839	A3	20020612
US 2004267025	A1	20041230	US 2003-684740		20031014
			US 2001-297282P	P	20010612
			US 2002-167839	A3	20020612
US 2004242692	A1	20041202	US 2004-865088		20040610
			US 2001-297282P	P	20010612
			US 2002-167839	A1	20020612
US 2005004115	A1	20050106	US 2004-892950		20040716
			US 2001-297282P	P	20010612
			US 2002-167839	A3	20020612
			US 2003-685183	A3	20031014

OS MARPAT 138:24543
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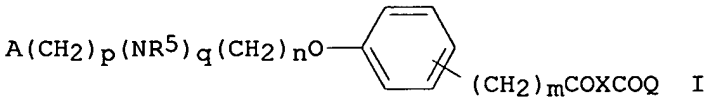

I

AB Biol. active title compds. [I; n = 1, 2; m, q, p = 0, 1; R5 = alkyl; R9 = H, halo, alkoxy; A = (halo-, alkyl-, perfluoromethyl-, alkoxy-, perfluoromethoxy-substituted) Ph, (Me-, Et-substituted) cycloalkyl, 5-6 membered heteroarom. ring having 1-2 N, S, O atoms; X = CH2, Q = OR1, R1 = Et; or X = CH2CR12R13, CH2CH(NHAc), Q = OR1, R1 = H, alkyl; or X = CH2CH2, Q = NR10R11; R12, R13 = H, Me; 1 of R10, R11 = H, alkyl, OH, the other = H, alkyl], were prepared Thus, 4-(2-fluorobenzyloxy)acetophenone (preparation given) in THF and DMPU was treated with a solution of Li bis(trimethylsilyl)amide at -60°; after 10 min, tert-Bu bromoacetate was added followed by stirring for an addnl. 10 min and warming to room temperature for 4 h to give tert-Bu 4-[4-(2-fluorobenzyloxy)phenyl]-4-oxobutyrate. The latter was stirred with CF3CO2H in CH2Cl2 to give 4-[4-(2-fluorobenzyloxy)phenyl]-4-oxobutyric acid. Tested I showed antidiabetic activity in a variety of tests. I are useful in treatment of various metabolic disorders such as insulin resistance syndrome, **diabetes**, hyperlipidemia, fatty liver disease, cachexia, obesity, atherosclerosis and arteriosclerosis.

L22 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of phenylalkenoic acid derivatives and phenylalkanoic acid derivatives as PPARα agonists for treatment of hyperlipidemia, arteriosclerosis, obesity, and **diabetes**
AN 2002:428860 CAPLUS
DN 137:5999
TI Preparation of phenylalkenoic acid derivatives and phenylalkanoic acid derivatives as PPARα agonists for treatment of hyperlipidemia, arteriosclerosis, obesity, and **diabetes**
IN Miyachi, Hiroyuki; Tanase, Takahiro; Murakami, Kouji
PA Kyorin Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI WO 2002044131 A1 20020606 WO 2001-JP10354 20011128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
JP 2000-363678 A 20001129
AU 2002022551 A5 20020611 AU 2002-22551 20011128
JP 2000-363678 A 20001129
WO 2001-JP10354 W 20011128

OS MARPAT 137:5999
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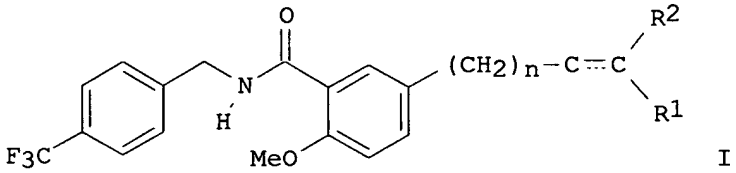

I

AB The title compds. I [n is 0 or 1; R1 represents hydrogen or lower alkyl; R2 represents carboxyl, lower alkoxycarbonyl, carbamoyl, hydroxyaminocarbonyl, lower alkoxyaminocarbonyl or 5-tetrazolyl; and the dotted line shows together with the solid line a double bond or a single bond; a proviso is given] are prepared For example, 3-[3-[N-[[4-(trifluoromethyl)phenyl]methyl]carbamoyl]-4-methoxyphenyl]-2-ethyl-2-propenoic acid (II) was prepared The effect of II on peroxisome proliferator-activated receptors α (PPARα) was demonstrated.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of (phenymethyl)alkanoic acid derivatives as PPARα agonists for treatment of arteriosclerosis, obesity, **diabetes**, etc.
AN 2002:428859 CAPLUS
DN 137:5998
TI Preparation of (phenymethyl)alkanoic acid derivatives as PPARα agonists for treatment of arteriosclerosis, obesity, **diabetes**, etc.
IN Miyachi, Hiroyuki; Nomura, Masahiro; Takahashi, Yukie; Tanase, Takahiro; Murakami, Kouji
PA Kyorin Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002044130	A1	20020606	WO 2001-JP10353	20011128

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,

UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

			JP 2000-363677	A	20001129
AU 2002022550	A5	20020611	AU 2002-22550		20011128
			JP 2000-363677	A	20001129
			WO 2001-JP10353	W	20011128

OS MARPAT 137:5998
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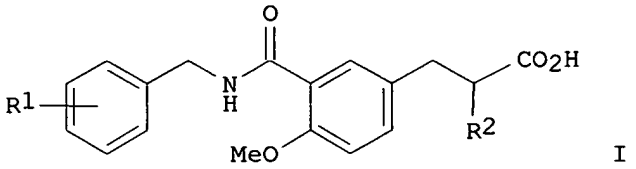

I

AB The title compds. I [R1 represents hydrogen, halogeno, hydroxy, 2-phenylethyl, 2-phenylethoxy, hydroxyphenoxy or benzyloxyphenoxy; and R2 represents lower (C1-4) alkyl] are prepared I are lipid-lowering drugs (particularly in the liver), drugs preventing the progress of arteriosclerosis, anti-obesity drugs and remedies for **diabetes**. For example, 2-[[3-[N-[(4-chlorophenyl)methyl]carbamoyl]-4-methoxyphenyl]methyl]butyric acid (II) was prepared The PPARα agonist activity of II was demonstrated.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of (phenylmethyl)alkanoic acid derivatives as PPARα (peroxisome proliferator-activated receptor α) agonists useful in treatment of hyperlipidemia, arteriosclerosis, obesity, and **diabetes**
AN 2002:428858 CAPLUS
DN 137:5997
TI Preparation of (phenylmethyl)alkanoic acid derivatives as PPARα (peroxisome proliferator-activated receptor α) agonists useful in treatment of hyperlipidemia, arteriosclerosis, obesity, and **diabetes**
IN Miyachi, Hiroyuki; Murakami, Kouji
PA Kyorin Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002044129	A1	20020606	WO 2001-JP10352	20011128

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

			JP 2000-363676	A	20001129
AU 2002022549	A5	20020611	AU 2002-22549		20011128
			JP 2000-363676	A	20001129
			WO 2001-JP10352	W	20011128

OS MARPAT 137:5997
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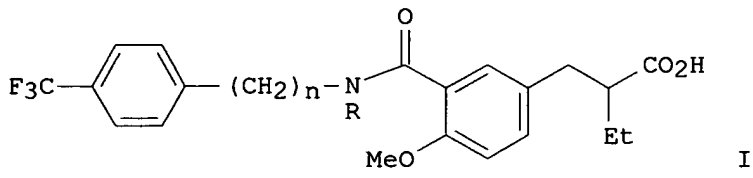

I

AB The title compds. I [n is 0, 1 or 2; and R represents hydrogen or lower (C1-10) alkyl in case where n is 0 or 2, or lower (C1-10) alkyl in case where n is 1] are prepared For example, I [n = 2; R = H] (II) was prepared The effect of II on the peroxisome proliferator-activated receptor α was demonstrated.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of phenylmethylalkanoic acid derivatives as PPARα agonists useful in the treatment of hyperlipidemia, arteriosclerosis, **diabetes**, and obesity
AN 2002:428856 CAPLUS
DN 137:20225
TI Preparation of phenylmethylalkanoic acid derivatives as PPARα agonists useful in the treatment of hyperlipidemia, arteriosclerosis, **diabetes**, and obesity
IN Miyachi, Hiroyuki; Nomura, Masahiro; Murakami, Kouji
PA Kyorin Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002044127	A1	20020606	WO 2001-JP10355	20011128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			JP 2000-363679	A	20001129
AU 2002022552	A5	20020611	AU 2002-22552		20011128
			JP 2000-363679	A	20001129
			WO 2001-JP10355	W	20011128

OS MARPAT 137:20225
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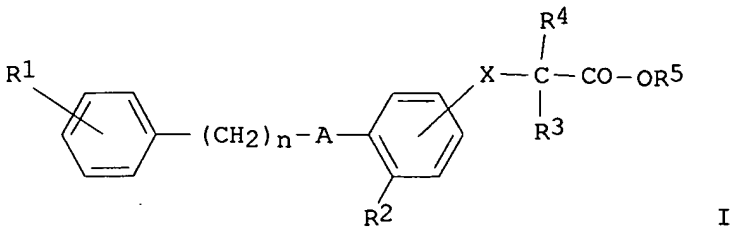
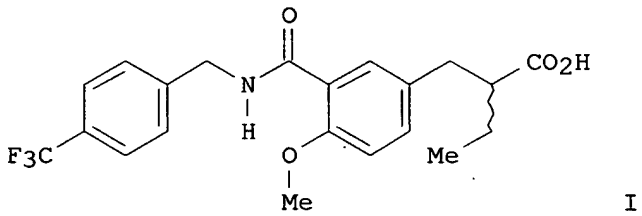


I

AB The title compds. I [R1 represents trifluoromethyl, optionally substituted phenoxy, etc.; R2 represents hydrogen or lower alkoxy; R3, R4 and R5 represent each hydrogen or lower alkyl; A represents NHCO or CONH; X is located at the para-position relative to A and represents oxygen or sulfur, or X is located at the para-position relative to R2 and represents oxygen or sulfur; and n is an integer of from 0 to 2], useful as PPARα agonists (no data) for the treatment of hyperlipidemia, arteriosclerosis, **diabetes**, and obesity, are prepared For example, 2-[[4-[N-[[4-(trifluoromethyl)phenyl]methyl]carbamoyl]-3-methoxyphenyl]methyl]butyric acid was prepared

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
TI Enantio-dependent binding and transactivation of optically active phenylpropanoic acid derivatives at human peroxisome proliferator-activated receptor alpha
AN 2002:97666 CAPLUS
DN 137:78739
TI Enantio-dependent binding and transactivation of optically active phenylpropanoic acid derivatives at human peroxisome proliferator-activated receptor alpha
AU Miyachi, Hiroyuki; Nomura, Masahiro; Tanase, Takahiro; Suzuki, Masahiro; Murakami, Koji; Awano, Katsuya
CS Kyorin Pharmaceutical Co., Ltd., Discovery Research Laboratories, Shimotsuga-gun, Nogi-machi, Tochigi, 329-0114, Japan
SO Bioorganic & Medicinal Chemistry Letters (2002), 12(3), 333-335
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 137:78739
GI



I

AB Optically active phenylpropanoic acid derivs. [(S)-I, and (R)-I] were prepared, and their affinities for peroxisome proliferator-activated receptor (PPAR)α and PPARγ were evaluated. Binding assay and cell-based reporter assay indicated that the activity of these compds. is enantio-dependent, and resides exclusively on the (S)-isomer.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.12	404.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.11	-8.03

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:23:14 ON 26 APR 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 12:24:46 ON 26 APR 2005
FILE 'CAPLUS' ENTERED AT 12:24:46 ON 26 APR 2005
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.11	-8.03

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.12	404.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.11	-8.03

FILE 'REGISTRY' ENTERED AT 12:24:53 ON 26 APR 2005
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2005 HIGHEST RN 849177-50-0
DICTIONARY FILE UPDATES: 25 APR 2005 HIGHEST RN 849177-50-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

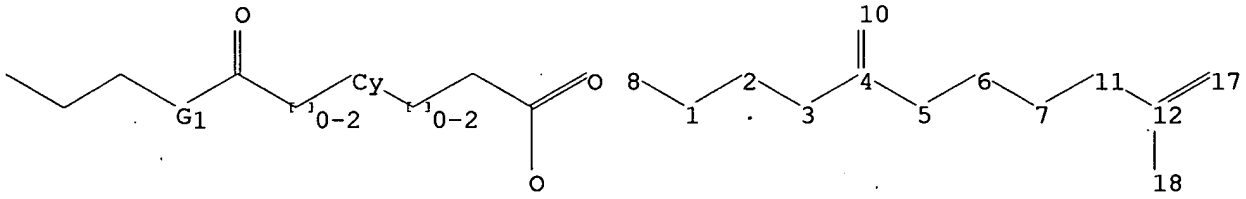
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10797458\10797458 modified subgenus 3.str



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chain bonds :
1-2 1-8 2-3 3-4 4-5 4-10 5-6 6-7 7-11 11-12 12-17 12-18
exact/norm bonds :
2-3 3-4 4-10 5-6 6-7 12-17 12-18
exact bonds :
1-2 1-8 4-5 7-11 11-12

G1:C,O,S,N,SO2

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:CLASS 8:Atom 10:CLASS
11:CLASS 12:CLASS 17:CLASS 18:CLASS
Generic attributes :
6:
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

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=> d l23
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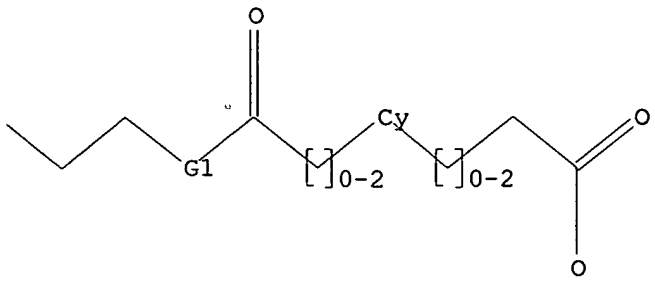
L23 STR



G1 C,O,S,N,SO2

Structure attributes must be viewed using STN Express query preparation.

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0.7% PROCESSED 1000 ITERATIONS 6 ANSWERS
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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
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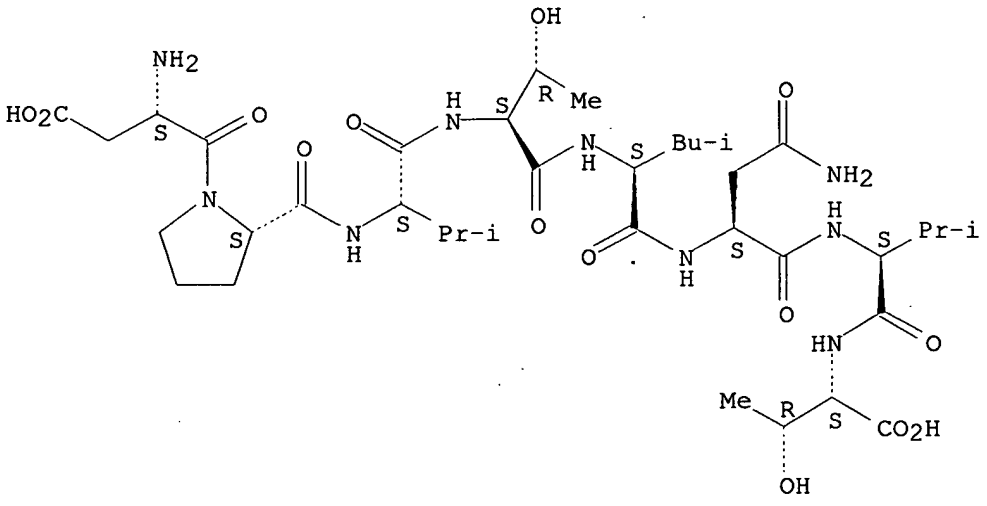
L24 6 SEA SSS SAM L23

=> d scan

L24 6 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN L-Threonine, L-α-aspartyl-L-prolyl-L-valyl-L-threonyl-L-leucyl-L-asparaginyl-L-valyl- (9CI)
SQL 8
MF C37 H63 N9 O14

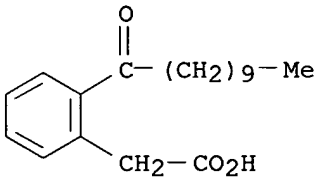
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):6

L24 6 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetic acid, 2-(1-oxoundecyl)- (9CI)
MF C19 H28 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L24 6 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN L-Serine, glycyl-L-valyl-L-leucyl-L-prolyl-L-alanyl-L-leucyl-L-prolyl-L-glutaminyl-L-valyl-L-valyl-L-cysteinyl-L-leucyl-L-threonyl-L-cysteinyl-L-α-aspartyl-L-α-aspartyl-L-prolyl-L-arginyl-L-phenylalanyl-L-glutaminyl-L-α-aspartyl-L-seryl- (9CI)
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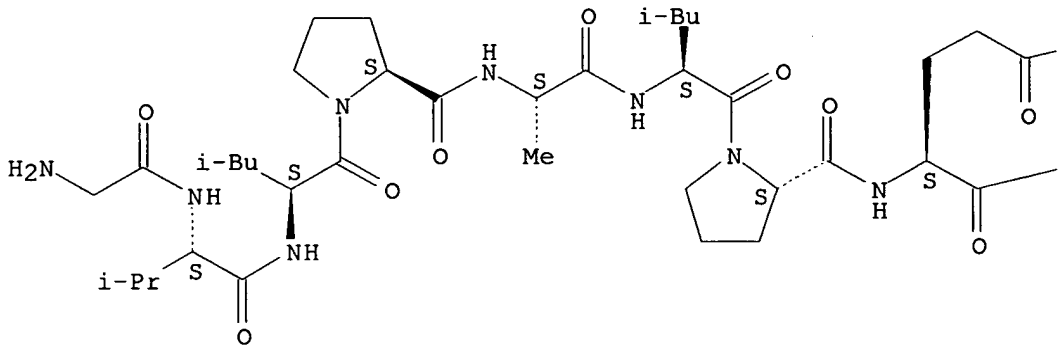
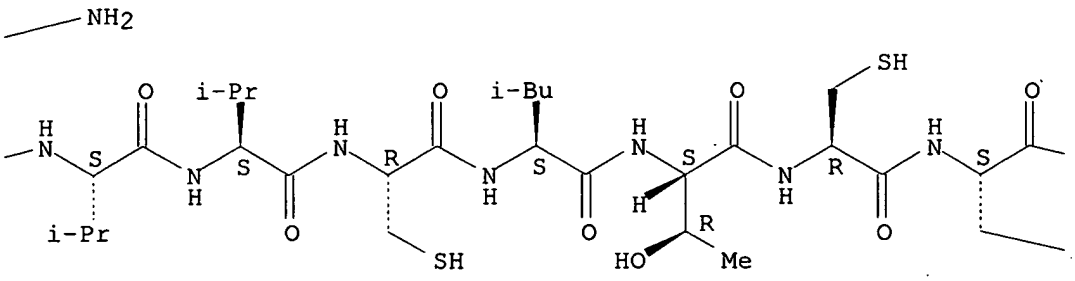
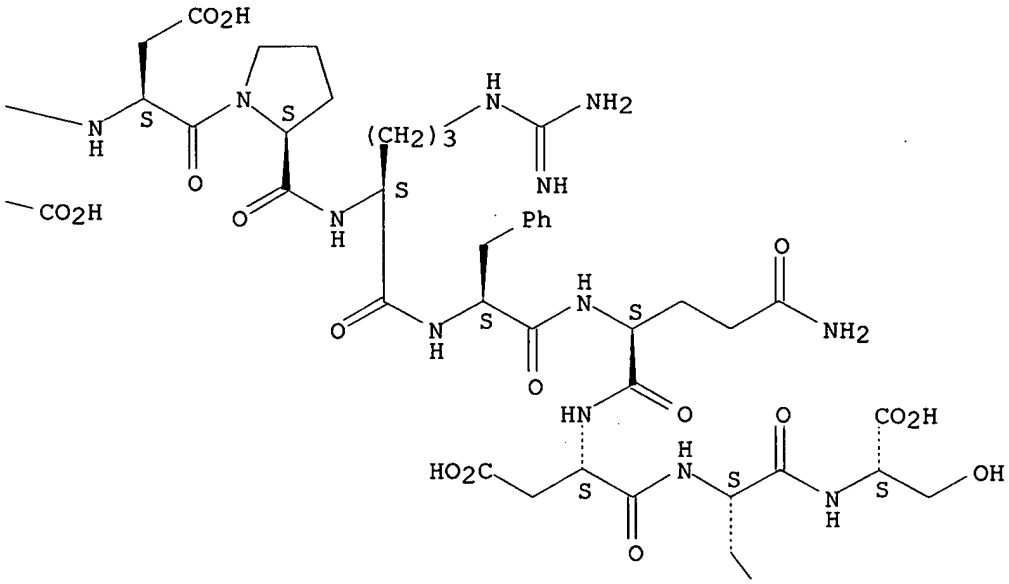
Absolute stereochemistry.



PAGE 1-B



PAGE 1-C

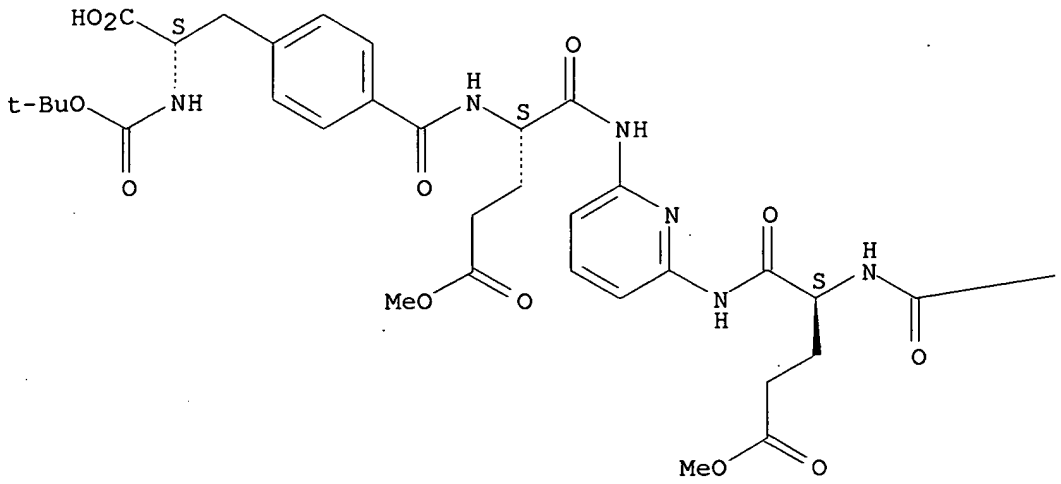


PAGE 2-C

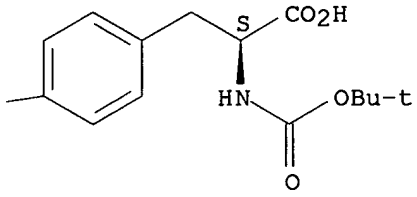
L24 6 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN L-Phenylalanine, 4,4'-[2,6-pyridinediylbis[imino[(1S)-1-(3-methoxy-3-oxopropyl)-2-oxo-2,1-ethanediyl]iminocarbonyl]]bis[N-[(1,1-dimethylethoxy)carbonyl]- (9CI)
MF C47 H59 N7 O16

Absolute stereochemistry.

PAGE 1-A



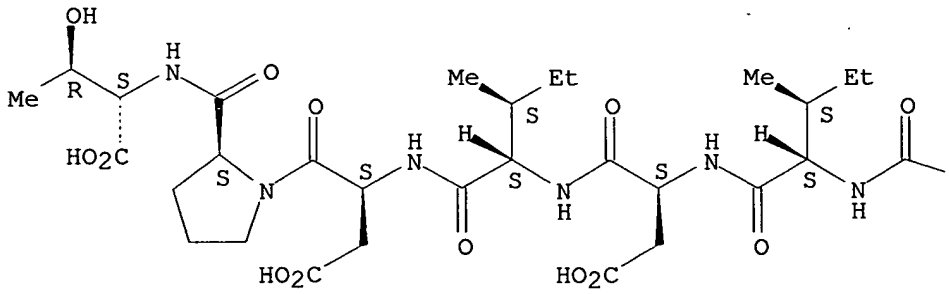
PAGE 1-B



L24 6 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN L-Threonine, L-prolyl-L-alanyl-L-seryl-L-arginyl-L-isoleucyl-L-α-aspartyl-L-isoleucyl-L-α-aspartyl-L-prolyl- (9CI)
SQL 10
MF C46 H77 N13 O17

Absolute stereochemistry.

PAGE 1-A



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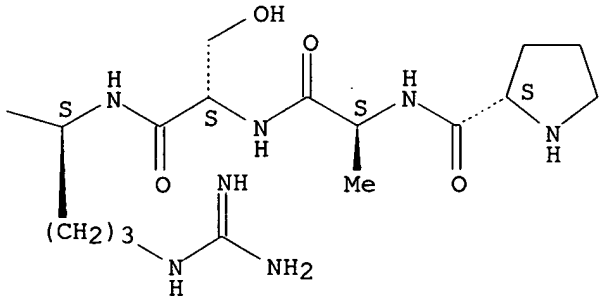

L24 6 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN L-Isoleucine, L-valyl-L-prolyl-L-α-aspartyl-L-prolyl-L-valyl-L-phenylalanyl-L-α-glutamyl-L-seryl- (9CI)
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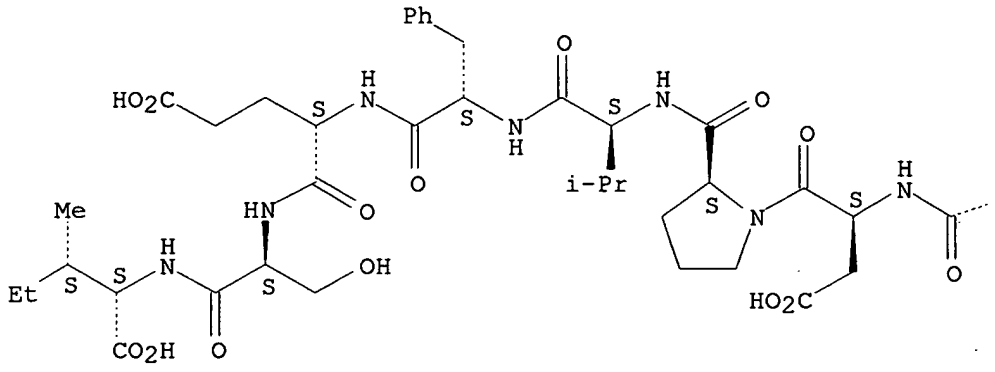
MF C47 H71 N9 O15

Absolute stereochemistry.

PAGE 1-A



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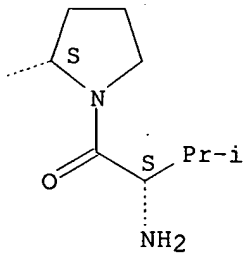

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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< 14.7% PROCESSED 400000 ITERATIONS 3057 ANSWERS
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FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 20346

L25 3057 SEA SSS FUL L23

=> file caplus

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FULL ESTIMATED COST	162.19	566.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.03

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 26 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 25 Apr 2005 (20050425/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l25
L26 762 L25

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=> l3 and l26
L27         57 L3 AND L26

=> d his

     (FILE 'HOME' ENTERED AT 10:44:00 ON 26 APR 2005)

     FILE 'CAPLUS' ENTERED AT 10:44:33 ON 26 APR 2005
L1          108 PHENYALANINE
L2        73592 PHENYLALANINE
L3       111423 DIABET?
L4          553 L2 AND L3
L5            0 LOGOFDF HOLD

     FILE 'REGISTRY' ENTERED AT 10:53:30 ON 26 APR 2005
L6                STRUCTURE UPLOADED
L7           11 SEARCH L6 SSS SAM

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L8           18 L7
L9            0 L3 AND L8

     FILE 'REGISTRY' ENTERED AT 10:55:45 ON 26 APR 2005
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     FILE 'CAPLUS' ENTERED AT 10:57:43 ON 26 APR 2005
L11         337 L10
L12           0 L3 AND L11
L13         875 PHENYL ACETIC
L14        8713 PHENYLACETIC
L15         107 L3 AND L14

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L17           2 SEARCH L16 SSS SAM

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L18           4 L17
L19           0 L3 AND L18

     FILE 'REGISTRY' ENTERED AT 12:16:44 ON 26 APR 2005
L20        1363 SEARCH L16 SSS FULL

     FILE 'CAPLUS' ENTERED AT 12:17:40 ON 26 APR 2005
L21         206 L20
L22          35 L3 AND L21

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L23               STRUCTURE UPLOADED
L24           6 SEARCH L23 SSS SAM
L25        3057 SEARCH L23 SSS FULL

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L26         762 L25
L27          57 L3 AND L26

=> l27 not l22
L28         55 L27 NOT L22

=> d l28 45-55 ti

L28  ANSWER 45 OF 55  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Preparation of phenoxyalkanamides as amide linker peroxisome proliferator
```

activated receptor agonists for treating and/or preventing **diabetes** mellitus and syndrome X

L28 ANSWER 46 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Insulin and IGF-1 receptor peptide agonists and antagonists, and therapeutic use

L28 ANSWER 47 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Expression of Preproinsulin-2 Gene Shapes the Immune Response to Preproinsulin in Normal Mice

L28 ANSWER 48 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Pancreatitis-associated protein and methods for promoting β-cell neogenesis

L28 ANSWER 49 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Targets for therapeutic intervention identified in the human mitochondrial proteome

L28 ANSWER 50 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Active antiangiogenic therapy

L28 ANSWER 51 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation and compositions of nitrosothio (hetero)cyclic nitric oxide donors

L28 ANSWER 52 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Insulin and IGF-1 receptor peptide agonists and antagonists, and therapeutic use

L28 ANSWER 53 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Chemokine binding peptides capable of modulating the biological activity of chemokines, and therapeutic use

L28 ANSWER 54 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Hsp70-derived peptides an uses thereof in the diagnosis and treatment of autoimmune diseases

L28 ANSWER 55 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Non-invasive measurement of metabolism of biological molecules not easily accessible to direct sampling by label incorporation into metabolites and catabolites

=> d l28 45 ti fbib abs

L28 ANSWER 45 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of phenoxyalkanamides as amide linker peroxisome proliferator activated receptor agonists for treating and/or preventing **diabetes** mellitus and syndrome X
AN 2004:2837 CAPLUS
DN 140:59411
TI Preparation of phenoxyalkanamides as amide linker peroxisome proliferator activated receptor agonists for treating and/or preventing **diabetes** mellitus and syndrome X
IN Ferritto Crespo, Rafael; Martin, Jose Alfredo; Martin-Ortega, Finger Maria Dolores; Rojo Garcia, Isabel; Shen, Quanrong; Warshawsky, Alan M.; Xu, Yanping
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 168 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004000789	A1	20031231	WO 2003-US16207	20030611
	WO 2004000789	C2	20040311		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	EP 1517882	A1	20050330	EP 2003-731326	20030611
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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OS MARPAT 140:59411

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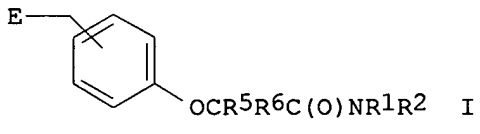

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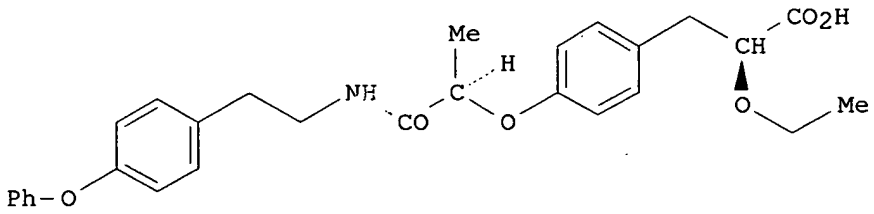

II

AB The present invention is directed to phenoxyalkanamides (shown as I; variables defined below; e.g. II), compns., and their use as peroxisome proliferator activated receptor agonists for treating and/or preventing **diabetes** mellitus and syndrome X. The binding and cotransfection efficacy values found for compds. of this invention that are useful for modulating a PPARα receptor are about <100 nM and >50%, resp. Although the methods of preparation are not claimed, .apprx.140 example prepns. of I are included. For example, II was prepared in 3 steps starting from (2S)-2-ethoxy-3-(4-hydroxyphenyl)propionic acid Me ester, (2S)-2-hydroxypropionic acid benzyl ester and involving intermediates (2S)-3-[4-[[(1R)-1-[(benzyloxy)carbonyl]ethyl]oxy]phenyl]-2-ethoxypropionic acid Et ester and (2S)-3-[4-[((1R)-1-carboxyethyl)oxy]phenyl]-2-ethoxypropionic acid. For I: R1 = H, C1-C8 alkyl, C3-C6 cycloalkyl, aryl-C0-4-alkyl, heteroaryl-C0-4-alkyl, aminoC1-C4alkyl, C3-C6 cycloalkylaryl-C0-2-alkyl, arylheteroC1-C8alkyl, -CHC(O)C1-C4 alkoxy, C0-4-alkyl-C(O)heteroC1-C8alkyl, and -CH2C(O)-R15R16. R2 = C1-C8 alkyl, C3-C6 cycloalkyl, aryl-C0-C4-alkyl, heteroaryl-C0-C4-alkyl, heteroC1-C6cycloalkylaryl, heteroC1-C6cycloalkylarylC1-C4alkyl, aminoC1-C4alkyl, C3-C6 cycloalkylaryl-C0-C2-alkyl, arylheteroC1-C8alkyl, C0-C4-alkyl-C(O)heteroC1-C8alkyl, -CH(C(O)OCH3)benzyl, and

-CH2C(O)R15''R16''. R1 and R2 together may form a heterocyclic ring which heterocyclic ring is (un)substituted with 1-3 substituents R1' and which heterocyclic ring is optionally fused with an aryl; E = C(R3)(R4)A, (CH2)nCOOR13, aryl-C0-C4-alkyl, thio-C1-C4-alkyl, thioaryl, arylC1-C4alkoxy, C1-C4alkoxy C1-C4alkyl, aminoaryl, and aminoC1-C4alkyl. R5 and R6 = H, C1-C8 alkyl, aryl-C0-C4-alkyl, heteroaryl-C0-C4-alkyl, C3-C6 cycloalkyl, aryl-C0-C2-alkyl, C3-C6 cycloalkyl-C0-2-alkyl, and -CH2C(O)R17R18.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l28 34-44 ti

L28 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Protein tyrosine phosphatase inhibitors

L28 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Nogo receptor antagonists for promoting survival of neuron and treating multiple sclerosis, CNS neuropathy, and traumatic brain or spinal cord injury

L28 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Methods for the production and therapeutic uses of cytokine receptor INSP076 and ligands

L28 ANSWER 37 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cell penetrating peptides

L28 ANSWER 38 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cell penetrating peptides

L28 ANSWER 39 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cell penetrating peptides

L28 ANSWER 40 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cell penetrating peptides

L28 ANSWER 41 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cell penetrating peptides

L28 ANSWER 42 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cell penetrating peptides

L28 ANSWER 43 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Use of peptides derived from junctional adhesion molecules to permeabilize mucosa for improved efficiency of mucosal delivery of therapeutic compounds

L28 ANSWER 44 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Epitopes of viral LMP1 and LMP2 proteins for inducing tolerance to target antigens and for treating allergy, autoimmune disease and transplant rejection

=> d l28 34-36 ti fbib abs

L28 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Protein tyrosine phosphatase inhibitors
AN 2004:203856 CAPLUS
DN 140:247109
TI Protein tyrosine phosphatase inhibitors
IN Hooft van Huijsduijnen, Rob; Walchli, Sebastien; Arigoni, Fabrizio

PA Applied Research Systems Ars Holding N.V., Neth. Antilles
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004020466	A1	20040311	WO 2003-EP50385	20030820
WO 2004020466	C1	20050120		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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EP 2002-19357 A 20020829

OS MARPAT 140:247109
AB The invention relates to phosphopeptides inhibiting protein tyrosine phosphatases, and their medical uses. The invention relates to phosphopeptides and phosphopeptide derivs. inhibiting protein tyrosine phosphatases.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Nogo receptor antagonists for promoting survival of neuron and treating multiple sclerosis, CNS neuropathy, and traumatic brain or spinal cord injury
AN 2004:142908 CAPLUS
DN 140:198086
TI Nogo receptor antagonists for promoting survival of neuron and treating multiple sclerosis, CNS neuropathy, and traumatic brain or spinal cord injury
IN Lee, Daniel H. S.; Pepinsky, R. Blake; Li, Weiwei; Rabacchi, Sylvia A.; Relton, Jane K.; Worley, Dane S.; Strittmatter, Stephen M.; Sah, Dinah Y. W.
PA Yale University, USA; Biogen, Inc.
SO PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004014311	A2	20040219	WO 2003-US25004	20030807
WO 2004014311	A3	20040429		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002-402866P P 20020810

WO 2005016955 A2 20050224 WO 2004-US2702 20040130

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

WO 2003-US25004 A 20030807

AB Disclosed are immunogenic Nogo receptor-1 polypeptides, Nogo receptor-1 antibodies, antigen-binding fragments thereof, soluble Nogo receptors and fusion proteins thereof and nucleic acids encoding the same. Also disclosed are compns. comprising, and methods for making and using, such Nogo receptor antibodies, antigen-binding fragments, humanized and chimeric antibodies thereof, soluble Nogo receptors and fusion proteins thereof and nucleic acids or viral vector encoding the same for gene therapy. These Nogo receptor-1, antagonists are useful for inhibiting growth cone collapse of neuron, decreasing inhibition of neurite outgrowth, promoting survival of CNS neuron and axonal growth, and are therefore useful for treating multiple sclerosis, ALS, Huntington's disease, Alzheimer's disease, Parkinson's disease, **diabetes** neuropathy, stroke, traumatic brain injury or spinal cord injury.

L28 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
TI Methods for the production and therapeutic uses of cytokine receptor INSP076 and ligands
AN 2004:60555 CAPLUS
DN 140:127207
TI Methods for the production and therapeutic uses of cytokine receptor INSP076 and ligands
IN Rodrigues, Tania Maria; Fagan, Richard Joseph; Phelps, Christopher Benjamin; Power, Christine
PA Ares Trading S.A., Switz.
SO PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004007552	A1	20040122	WO 2003-GB3107	20030717
WO 2004007552	C1	20040415		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

GB 2002-16661 A 20020717

AB The invention is based on the discovery that the human protein referred to herein as INSP076 protein is a member of the cytokine receptor-type I family (hematopoietin receptor superfamily). Preferably, INSP076 functions as an IL-9 receptor or an IL-9 receptor-like protein. The INSP076 protein does not possess a transmembrane domain and accordingly the INSP076 protein is a potential soluble receptor. It is believed that the INSP076 protein may function as an IL-9 antagonist.
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> save temp l28 brdstsubgen/a
ANSWER SET L28 HAS BEEN SAVED AS 'BRDSTSUBGEN/A'

=> save temp all niddmsrch/l
L# LIST L1-L28 HAS BEEN SAVED AS 'NIDDMSRCH/L'

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    21.69     588.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.92     -10.95

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:32:08 ON 26 APR 2005

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:08:50 ON 26 APR 2005
FILE 'CAPLUS' ENTERED AT 13:08:50 ON 26 APR 2005
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COST IN U.S  DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    21.69     588.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    -2.92     -10.95

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                    21.69     588.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.92     -10.95

FILE 'REGISTRY' ENTERED AT 13:08:57 ON 26 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   25 APR 2005  HIGHEST RN 849177-50-0
DICTIONARY FILE UPDATES:  25 APR 2005  HIGHEST RN 849177-50-0
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=> e 1,4-Benzenediacetic acid, diethyl ester/cn
E1            1      1,4-BENZENEDIACETIC ACID, DIETHENYL ESTER, POLYMER WITH 1,4-
                     BUTANEDIOL/CN
E2            1      1,4-BENZENEDIACETIC ACID, DIETHENYL ESTER, POLYMER WITH 1,6-
                     HEXANEDIOL/CN
E3            1 --> 1,4-BENZENEDIACETIC ACID, DIETHYL ESTER/CN
E4            1      1,4-BENZENEDIACETIC ACID, DIETHYL ESTER, COMPD. WITH 1-(ACET
                     YLOXY)-N,N,N-TRIMETHYLMETHANAMINIUM SALT WITH 2,4,6-TRINITRO
                     PHENOL (1:1:1)/CN
E5            1      1,4-BENZENEDIACETIC ACID, DIETHYL ESTER, COMPD. WITH N,N,N-T
                     RIMETHYLMETHANAMINIUM SALT WITH 2,4,6-TRINITROPHENOL (1:1:1)
                     /CN
E6            1      1,4-BENZENEDIACETIC ACID, DIHEPTYL ESTER/CN
E7            1      1,4-BENZENEDIACETIC ACID, DIHEXYL ESTER/CN
E8            1      1,4-BENZENEDIACETIC ACID, DIHYDRAZIDE, POLYMER WITH 1,4-BENZ
                     ENEDICARBONYL DICHLORIDE/CN
E9            1      1,4-BENZENEDIACETIC ACID, DIMETHYL ESTER/CN
E10           1      1,4-BENZENEDIACETIC ACID, DIMETHYL ESTER, POLYMER WITH C,C,C
                     -TRIMETHYL-1,6-HEXANEDIAMINE/CN
E11           1      1,4-BENZENEDIACETIC ACID, DIMETHYL ESTER, POLYMER WITH DIMET
                     HYL 1,4-BENZENEDICARBOXYLATE AND C,C,C-TRIMETHYL-1,6-HEXANED
                     IAMINE/CN
E12           1      1,4-BENZENEDIACETIC ACID, DINONYL ESTER/CN

=> e3
L29           1 "1,4-BENZENEDIACETIC ACID, DIETHYL ESTER"/CN

=> d 129

L29  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   36076-26-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   1,4-Benzenediacetic acid, diethyl ester (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   p-Benzenediacetic acid, diethyl ester (6CI)
OTHER NAMES:
CN   NSC 139681
CN   p-Phenylenediacetic acid diethyl ester
FS   3D CONCORD
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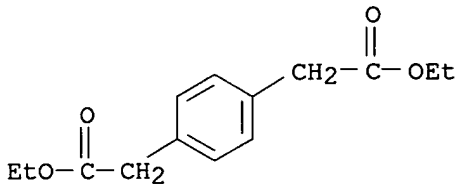
MF C14 H18 O4
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

20 REFERENCES IN FILE CA (1907 TO DATE)
20 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.87	595.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-10.95

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:09:43 ON 26 APR 2005